

CC The invention describes an isolated secreted and transmembrane PRO  
 CC polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615  
 CC is useful in biotechnological and medical research, as well as in various  
 CC industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,  
 CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853,  
 CC PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful  
 CC therapeutically in vivo for lessening the effects of viral infection.  
 CC PRO200 is useful for the treatment of wound healing, tissue growth and  
 CC muscle generation and regeneration. PRO337 is useful for treating  
 CC amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or  
 CC diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is  
 CC useful for generating transgenic animals or knockout animals which are  
 CC useful in the development and screening of therapeutically useful  
 CC reagents, as probes for generating a pool of sequences for identifying  
 CC related PRO coding sequences, and to construct hybridisation probes for  
 CC mapping the gene which encodes the PRO and for the genetic analysis of  
 CC individuals with genetic disorders, for recombinantly expressing (I) and  
 CC for chromosome identification. (I) is useful as molecular marker for  
 CC protein electrophoresis purposes, and as therapeutic agents. (I) is also  
 CC useful for screening compounds to identify those that mimic the PRO  
 CC polypeptide (agonists) or prevent the effect of the PRO polypeptide  
 CC (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies  
 CC are useful for immunohistochemical staining and/or assay of sample  
 CC fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g.  
 CC detecting its expression in specific cells, tissues or serum, and for  
 CC affinity purification of PRO from recombinant cell culture or natural  
 CC sources. This sequence represents a human secreted and transmembrane PRO  
 CC protein associated primer.  
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 SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;

Best Local Similarity 92.9%; Pred. No. 4.3e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAATCGGTGGCGG 228  
 Db 18 GAATCGGTGGCGG 5

RESULT 698

AD68610/C  
 ID ADC68610 standard; DNA; 18 BP.

XX

AC ADC68610;

XX

DT 18-DEC-2003 (first entry)

XX

DE Human PRO 274 PCR primer #4.

XX

KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;

XX

XX Homo sapiens.

OS

XX US2003064407-A1.

PN

PD 03-APR-2003.

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PF 24-OCT-2001; 2001US-00999834.

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PA (GETH ) GENENTECH INC.
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DT 18-DEC-2003 (first entry)
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DE Human PRO 274 PCR primer #4.
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KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
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PD 10-APR-2003.
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 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
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 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 PI Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX WPI, 2003-695924/66.  
 DR New isolated secreted and transmembrane PRO polypeptides, useful in the  
 PT preparation of a medicament for treating a condition responsive to the  
 PT polypeptide, and as therapeutic agents e.g. vaccines.  
 XX Example 4; SEQ ID NO 14; 467pp; English.  
 PS The invention relates to an isolated PRO polypeptide (secreted or  
 CC transmembrane protein) having at least 80% amino acid sequence identity







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PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99WO-US000106.  
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PR 10-MAR-1999; 99WO-US0005190.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131022P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
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PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028565.  
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PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
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PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
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PR 30-MAY-2000; 2000WO-US014941.  
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PR 24-AUG-2000; 2000WO-US023328.  
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PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US0006520.  
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PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
PA (GETH ) GENENTECH INC.  
XX Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillian KJ;  
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI, 2003-743806/70.  
XX Novel isolated secreted and transmembrane PRO polypeptides, useful in the  
PT preparation of a medicament for treating a condition responsive to the  
PT polypeptide, and as therapeutic agents e.g. vaccines.  
XX Example 4; SEQ ID NO 14; 466pp; English.  
PS The invention relates to an isolated PRO polypeptide (secreted or  
XX transmembrane protein) having at least 80% amino acid sequence identity  
CC to an amino acid sequence chosen from 94 fully defined sequences as given  
CC in the specification (including PRO lacking its associated signal  
CC peptide, a PRO extracellular domain with or without its associated signal  
CC peptide). Also included are nucleic acids encoding the PRO proteins  
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
CC comprising the vector and producing PRO, a chimaeric molecule comprising  
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993

CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
 Best Local Similarity 92.9%; Fred. NO. 4.3e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACCTCGGTGGCGG 228  
 DB 18 GAACCTCGGTGGCGG 5

# RESULT 702

ADCG7110/c  
 ID ADCG7110 standard; DNA; 18 BP.

XX

AC ADCG7110;

XX

DT 18-DEC-2003 (first entry)

XX

DE Human PRO 274 PCR primer #4.

XX

KW vulnery; virucide; neuroprotective; cytostatic; gene therapy;

KW tumour cell proliferation inhibitor;

KW secreted and transmembrane protein; PRO; viral infection; wound healing;

KW tissue growth; muscle generation; muscle regeneration;

KW amyotrophic lateral sclerosis; neuropathy; AIDS-associated neuropathy;

KW diabetic peripheral neuropathy; chromosome identification; antagonist;

KW tissue typing; immunohistochemical staining; primer; ss.

OS Homo sapiens.

XX US2003073131-A1.

PN 17-APR-2003.

PD

XX

PF 25-OCT-2001; 2001US-00016177.

XX

PR 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066364P.

PR 11-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

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PR 12-MAR-1998; 98US-0077791P.

PR 13-MAR-1998; 98US-0078004P.

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PR 27-MAR-1998; 98US-0079728P.

PR 27-MAR-1998; 98US-0079786P.

PR 30-MAR-1998; 98US-0079920P.

PR 31-MAR-1998; 98US-0079923P.

PR 31-MAR-1998; 98US-0080105P.

PR 31-MAR-1998; 98US-0080107P.

PR 31-MAR-1998; 98US-0080165P.

PR 01-APR-1998; 98US-0080327P.

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PR 08-APR-1998; 98US-0081070P.

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PR 09-APR-1998; 98US-0081195P.

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PR 15-APR-1998; 98US-0081817P.

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PR 22-APR-1998; 98US-0082704P.

PR 22-APR-1998; 98US-0082797P.

PR 22-APR-1998; 98US-0082804P.

PR 23-APR-1998; 98US-0082796P.

PR 27-APR-1998; 98US-0083366P.

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PR 29-APR-1998; 98US-0083558P.

PR 30-APR-1998; 98US-0083559P.

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PR 06-MAY-1998; 98US-0084414P.

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PR 22-MAY-1998; 98US-0086486P.

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PR 20-NOV-1998; 98US-0109304P.

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PR 10-MAR-1999; 99WO-US005028.

PR 12-MAR-1999; 99WO-US005190.

PR 29-MAR-1999; 99US-0123957P.

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PR 26-APR-1999; 99US-0131022P.

PR 28-APR-1999; 99US-0131445P.



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PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
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PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
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PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
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PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
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XX
XX
(GETH ) GENENTECH INC.

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACTCGGTGGGG 228
Db 18 GAACTCGGTGGGG 5

RESULT 704
ADCI3477/c
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ID ADC13477 standard; DNA; 18 BP.  
XX  
AC ADC13477;  
XX  
DT 18-DEC-2003 (first entry)  
XX  
XX Kaposi's sarcoma tag PCR primer, SEQ ID NO 144.  
DE  
XX marker gene; tumour; Kaposi's Sarcoma; peripheral blood mononuclear cell;  
KW PBMC; expressed keratin 14; TIE 1; Salivoadhesin; Siglec 1; angiogenesis;  
KW drug target; tag; SAGE library; KS3; KS4; PCR; primer; ss.  
XX  
OS Unidentified.  
XX  
XX EP1298221-A1.  
PN  
XX  
PD 02-APR-2003.  
XX  
XX 28-SEP-2001; 2001EP-00203703.  
PF  
XX 28-SEP-2001; 2001EP-00203703.  
PR  
XX (PRIM-) PRIMAGEN HOLDING BV.  
PA  
XX Van Der Kuyl AC, Cornelissen M;  
PI  
XX WPI; 2003-589342/56.  
DR  
XX  
XX Determining whether a treatment is effective in changing a status of a  
PT certain set of target cells in an individual comprises determining  
PT whether the sample comprises an expression product of at least one marker  
PT gene.  
XX  
XX Disclosure; SEQ ID NO 144; 94pp; English.  
PS  
XX  
XX The invention relates to a novel method for determining whether a  
CC treatment is effective in changing a status of a certain set of target  
CC cells in an individual. The method comprises obtaining a sample from an  
CC individual after initiation of the treatment; and determining whether the  
CC sample comprises an expression product of at least one marker gene. The  
CC marker gene and a proteinaceous molecule (which can bind to the protein  
CC derived from the marker gene of the invention) are useful for determining  
CC whether a treatment is effective in counteracting a tumour in an  
CC individual, especially Kaposi's Sarcoma. Peripheral blood mononuclear  
CC cell (PBMC) expressed keratin 14, TIE 1, Salivoadhesin, or Siglec 1  
CC sequences or a fully defined sequence given in the specification, or  
CC their analogues are useful as indicators for angiogenesis and for  
CC detecting the presence of a tumour cell in an individual. The expression  
CC product of a gene comprising a marker gene of the invention is useful as  
CC a drug target. The compound is useful for preparing a medicament. This  
CC polynucleotide sequence represents a PCR primer of a Kaposi's Sarcoma tag  
CC sequence of the invention.  
XX  
SQ Sequence 18 BP; 2 A; 8 C; 3 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.4; DB 1; Length 18;  
Best Local Similarity 92.9%; Pred. No. 4.3e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 288 AAGCTGGTGAAGGA 301  
Db 18 AAGCTGGTGAAGGA 5  
  
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XX  
AC ADC41679;  
XX  
XX 18-DEC-2003 (first entry)  
DT  
XX Human PRO 274 PCR primer #4.  
DE

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
OS Homo sapiens.  
XX  
XX US2003104998-A1.  
PN  
XX  
PD 05-JUN-2003.  
XX  
XX 16-OCT-2001; 2001US-00978643.  
PF  
XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
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PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.

PR	29-APR-1998;	98US-0083554P.	PR	29-OCT-1999;	99US-0162506P.
PR	29-APR-1998;	98US-0083555P.	PR	30-NOV-1999;	99WO-US028313.
PR	29-APR-1998;	98US-0083555P.	PR	02-DEC-1999;	99WO-US028551.
PR	30-APR-1998;	98US-0083742P.	PR	16-DEC-1999;	99WO-US030035.
PR	05-MAY-1998;	98US-0084366P.	PR	30-DEC-1999;	99WO-US031243.
PR	06-MAY-1998;	98US-0084441P.	PR	05-JAN-2000;	2000WO-US000219.
PR	06-MAY-1998;	98US-0084441P.	PR	06-JAN-2000;	2000WO-US000277.
PR	07-MAY-1998;	98US-0084600P.	PR	11-FEB-2000;	2000WO-US003376.
PR	07-MAY-1998;	98US-0084627P.	PR	18-FEB-2000;	2000WO-US004341.
PR	07-MAY-1998;	98US-0084637P.	PR	24-FEB-2000;	2000WO-US005004.
PR	07-MAY-1998;	98US-0084639P.	PR	02-MAR-2000;	2000WO-US005841.
PR	07-MAY-1998;	98US-0084640P.	PR	10-MAR-2000;	2000WO-US006319.
PR	13-MAY-1998;	98US-0085323P.	PR	21-MAR-2000;	2000WO-US007532.
PR	13-MAY-1998;	98US-0085333P.	PR	30-MAR-2000;	2000WO-US008439.
PR	13-MAY-1998;	98US-0085233P.	PR	17-MAY-2000;	2000WO-US013705.
PR	15-MAY-1998;	98US-0085573P.	PR	22-MAY-2000;	2000WO-US014042.
PR	15-MAY-1998;	98US-0085573P.	PR	30-MAY-2000;	2000WO-US014941.
PR	15-MAY-1998;	98US-0085580P.	PR	02-JUN-2000;	2000WO-US015264.
PR	15-MAY-1998;	98US-0085582P.	PR	28-JUL-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085689P.	PR	24-AUG-2000;	2000WO-US023328.
PR	15-MAY-1998;	98US-0085697P.	PR	08-NOV-2000;	2000US-00709238.
PR	15-MAY-1998;	98US-0085700P.	PR	27-NOV-2000;	2000US-00723749.
PR	15-MAY-1998;	98US-0085704P.	PR	01-DEC-2000;	2000WO-US032678.
PR	18-MAY-1998;	98US-0086023P.	PR	20-DEC-2000;	2000US-00747259.
PR	22-MAY-1998;	98US-0086392P.	PR	20-DEC-2000;	2000WO-US034956.
PR	22-MAY-1998;	98US-0086414P.	PR	28-FEB-2001;	2001WO-US006520.
PR	22-MAY-1998;	98US-0086430P.	PR	22-MAR-2001;	2001US-00816744.
PR	22-MAY-1998;	98US-0086486P.	PR	22-MAR-2001;	2001US-00816920.
PR	28-MAY-1998;	98US-0087098P.	PR	22-MAR-2001;	2001WO-US009552.
PR	28-MAY-1998;	98US-0087108P.	PR	10-MAY-2001;	2001US-00854208.
PR	28-MAY-1998;	98US-0087208P.	PR	10-MAY-2001;	2001US-00854280.
PR	26-JUN-1998;	98US-00105413.	PR	25-MAY-2001;	2001WO-US017092.
PR	26-JUN-1998;	98US-0090863P.	PR	01-JUN-2001;	2001US-00872035.
PR	26-JUN-1998;	98US-0091010P.	PR	01-JUN-2001;	2001WO-US017800.
PR	01-JUL-1998;	98US-0091359P.	PR	05-JUN-2001;	2001US-00874503.
PR	30-JUL-1998;	98US-0094651P.	PR	14-JUN-2001;	2001US-00882636.
PR	11-SEP-1998;	98US-0100038P.	PR	19-JUN-2001;	2001US-00886342.
PR	07-OCT-1998;	98US-0016897P.	PR	20-JUN-2001;	2001WO-US019692.
PR	07-OCT-1998;	98US-0021141.	PR	29-JUN-2001;	2001WO-US021066.
PR	02-NOV-1998;	98WO-US0184216.	PR	09-JUL-2001;	2001WO-US021735.
PR	06-NOV-1998;	98US-00187368.	PR	30-JUL-2001;	2001US-00918585.
PR	20-NOV-1998;	98US-0109304P.	XX		
PR	20-NOV-1998;	98WO-US024855.	PA	(GETH ) GENENTECH INC.	
PR	07-DEC-1998;	98US-00202054.	XX		
PR	22-DEC-1998;	98US-00218517.			
PR	22-DEC-1998;	98US-0113296P.			
PR	23-DEC-1998;	98US-0113621P.			
PR	05-JAN-1999;	99WO-US000106.			
PR	05-JAN-1999;	99US-00254465.			
PR	08-MAR-1999;	99WO-US005028.			
PR	10-MAR-1999;	98US-00265686.			
PR	10-MAR-1999;	99WO-US005190.			
PR	12-MAR-1999;	99US-00267213.			
PR	12-MAR-1999;	99US-0123957P.			
PR	23-MAR-1999;	99US-0126773P.			
PR	12-APR-1999;	99US-00284291.			
PR	21-APR-1999;	99US-0130232P.			
PR	26-APR-1999;	99US-0131022P.			
PR	28-APR-1999;	99US-0131445P.			
PR	14-MAY-1999;	99US-00311832.			
PR	14-MAY-1999;	99US-0134287P.			
PR	02-JUN-1999;	99WO-US010733.			
PR	16-JUN-1999;	99US-0139557P.			
PR	23-JUN-1999;	99US-0141037P.			
PR	07-JUL-1999;	99US-0142680P.			
PR	28-JUL-1999;	99US-0145988P.			
PR	28-JUL-1999;	99US-0146222P.			
PR	25-AUG-1999;	99US-00380137.			
PR	25-AUG-1999;	99US-00380138.			
PR	25-AUG-1999;	99US-00380142.			

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
 Best Local Similarity 92.9%; Pred. No. 4.3e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 215 GAACCTCGGTGGCGG 228  
 ||||| |||||  
 DB 18 GAACCTCGGTGGCGG 5

RESULT 706  
 ADE49048/c  
 ID ADE49048 standard; DNA; 18 BP.

XX ADE49048;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
 KW ophthalmological; antiarthritic; osteopathic; antiarthritis; vulnary;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.

OS	Homo sapiens.	PR	07-MAY-1998;	98US-0084600P;
US2003096744-A1.		PR	07-MAY-1998;	98US-0084627P;
22-MAY-2003.		PR	07-MAY-1998;	98US-0084637P;
		PR	07-MAY-1998;	98US-0084639P;
		PR	07-MAY-1998;	98US-0084640P;
		PR	07-MAY-1998;	98US-0084643P;
		PR	13-MAY-1998;	98US-0085323P;
		PR	13-MAY-1998;	98US-0085338P;
		PR	13-MAY-1998;	98US-0085339P;
		PR	15-MAY-1998;	98US-0085573P;
		PR	15-MAY-1998;	98US-0085579P;
		PR	15-MAY-1998;	98US-0085580P;
		PR	15-MAY-1998;	98US-0085582P;
		PR	15-MAY-1998;	98US-0085689P;
		PR	15-MAY-1998;	98US-0085697P;
		PR	15-MAY-1998;	98US-0085700P;
		PR	15-MAY-1998;	98US-0085704P;
		PR	18-MAY-1998;	98US-0086023P;
		PR	22-MAY-1998;	98US-0086392P;
		PR	22-MAY-1998;	98US-0086414P;
		PR	22-MAY-1998;	98US-0086430P;
		PR	22-MAY-1998;	98US-0086485P;
		PR	28-MAY-1998;	98US-0087098P;
		PR	28-MAY-1998;	98US-0087106P;
		PR	28-MAY-1998;	98US-0087208P;
		PR	28-MAY-1998;	98US-00105413;
		PR	26-JUN-1998;	98US-0090863P;
		PR	26-JUN-1998;	98US-0091010P;
		PR	01-JUL-1998;	98US-0091359P;
		PR	30-JUL-1998;	98US-0094651P;
		PR	11-SEP-1998;	98US-0100038P;
		PR	07-OCT-1998;	98US-00168978;
		PR	07-OCT-1998;	98US-0021141;
		PR	02-NOV-1998;	98US-00184216;
		PR	06-NOV-1998;	98US-00187368;
		PR	20-NOV-1998;	98US-0103304P;
		PR	20-NOV-1998;	98US-0024855;
		PR	07-DEC-1998;	98US-00202054;
		PR	22-DEC-1998;	98US-00218517;
		PR	22-DEC-1998;	98US-0113296P;
		PR	23-DEC-1998;	98US-0113621P;
		PR	05-JAN-1999;	98US-0000106;
		PR	05-MAR-1999;	98US-00254465;
		PR	08-MAR-1999;	98US-00005028;
		PR	10-MAR-1999;	98US-00265686;
		PR	12-MAR-1999;	98US-00005190;
		PR	12-MAR-1999;	98US-00267213;
		PR	12-MAR-1999;	98US-0123957P;
		PR	29-MAR-1999;	98US-0126773P;
		PR	12-APR-1999;	98US-00284291;
		PR	21-APR-1999;	98US-0130233P;
		PR	26-APR-1999;	98US-0131022P;
		PR	28-APR-1999;	98US-0131445P;
		PR	14-MAY-1999;	98US-00311832;
		PR	14-MAY-1999;	98US-0134287P;
		PR	14-MAY-1999;	98US-00107133;
		PR	02-JUN-1999;	98US-0012232;
		PR	16-JUN-1999;	98US-0139557P;
		PR	23-JUN-1999;	98US-0141037P;
		PR	07-JUL-1999;	98US-0142680P;
		PR	26-JUL-1999;	98US-0145698P;
		PR	28-JUL-1999;	98US-0146222P;
		PR	25-AUG-1999;	98US-0038013P;
		PR	25-AUG-1999;	98US-00380142;
		PR	29-OCT-1999;	98US-0162506P;
		PR	30-NOV-1999;	98US-00283313;
		PR	02-DEC-1999;	98US-00285551;
		PR	16-DEC-1999;	98US-00300095;
		PR	30-DEC-1999;	98US-0031243;
		PR	05-JAN-2000;	98US-0031274;
		PR		2000US-0000219;





the cell expressing PRO337 polypeptide, where the cell is killed. PRO337 polypeptide or anti-PRO4993 polypeptide is useful for modulating the biological activity of the cell expressing PRO4993 polypeptide; PRO725, PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for modulating the biological activity of the cell expressing PRO1559 polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-PRO739 polypeptide is useful for modulating the biological activity of the cell expressing PRO725, PRO700 or PRO739 polypeptide. The polypeptides are useful for inhibiting tumour growth, retinal disorders, sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in mammals. The present sequence is a PCR primer used to isolate nucleic acid encoding a PRO protein.

Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
Best Local Similarity 92.9%; Pred. No. 4.3e-02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACCTCGTGGCGG 228  
DB 18 GAACCTCGTGGCGG 5

RESULT 709  
ADD72831/C  
ID ADD72831 standard; DNA; 18 BP.  
XX ADD72831;  
XX 29-JAN-2004 (first entry)  
XX Human PRO 274 PCR primer #4.  
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery; auditory; tumour growth; retinal disorder; sports-related joint problem; articular cartilage defects; osteoarthritis; rheumatoid arthritis; wound healing; hearing loss; primer.  
XX Homo sapiens.  
XX US2003203436-A1.  
XX 30-OCT-2003.  
XX 18-OCT-2001; 2001US-00145092.  
XX 30-APR-1998; 98US-0083742P.  
XX 08-MAR-1999; 99WO-US005028.  
XX 23-JUN-1999; 99US-0141037P.  
XX 25-AUG-1999; 99US-00380138.  
XX 18-FEB-2000; 2000WO-US004341.  
XX 30-JUL-2001; 2001US-00918585.  
XX (GETH ) GENENTECH INC.  
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
XX Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-875642/81.  
XX New genes, and its encoded secreted and transmembrane polypeptides, useful for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or wounds.  
XX Example 4; SEQ ID NO 14; 452pp; English.  
XX The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid, a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725, PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO725, PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337 polypeptide is useful for modulating at least one biological activity of

Example 4; SEQ ID NO 14; 453pp; English.

PS The invention relates to an isolated PRO polypeptide (secreted or  
XX transmembrane protein) having at least 80% amino acid sequence identity  
CC to an amino acid sequence chosen from 94 fully defined sequences as given  
CC in the specification (including PRO lacking its associated signal  
CC peptide, a PRO extracellular domain with or without its associated signal  
CC peptide). Also included are nucleic acids encoding the PRO proteins  
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
CC comprising the vector and producing PRO, a chimaeric molecule comprising  
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
CC causes death of the cell. PRO337 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
CC useful for linking a bioactive molecule to a cell expressing PRO725,  
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
CC polypeptide is useful for modulating at least one biological activity of  
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
CC modulating the biological activity of the cell expressing PRO1559  
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
CC PRO739 polypeptide is useful for modulating the biological activity of  
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
CC sports-related joint problems, articular cartilage defects,  
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
CC mammals. The present sequence is a PCR primer used to isolate nucleic  
CC acid encoding a PRO protein.

SQ Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;

Best Local Similarity 92.9%; Pred. No. 4.3e+02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAATCGGTGGCGG 228

Db 18 GAATCGGTGGCGG 5

RESULT 710

ADD72189/c

ID ADD72189 standard; DNA; 18 BP.

XX AC ADD72189;

XX XX 29-JAN-2004 (first entry)

XX DE Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophtalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.

XX Homo sapiens.

XX US2003194781-A1.

XX PD 16-OCT-2003.

XX

PF 19-OCT-2001; 2001US-00164929.  
XX  
PR 30-MAR-1998; 98US-0079920P.  
PR 07-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98WO-US024855.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 15-APR-1999; 99WO-US008313.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 25-AUG-1999; 99US-00380138.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 03-JAN-2000; 2000WO-US000279.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 25-MAY-2001; 2001WO-US009552.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.

(GETH ) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX

WPI; 2003-852598/79.

New secreted and transmembrane PRO nucleic acids and polypeptides, useful  
for stimulating the release of tumor necrosis factor alpha from human  
blood and stimulating the proliferation of differentiation of chondrocyte  
cells.

Example 4; SEQ ID NO 14; 462pp; English.

The invention relates to an isolated PRO polypeptide (secreted or  
transmembrane protein) having at least 80% amino acid sequence identity  
to an amino acid sequence chosen from 94 fully defined sequences as given  
in the specification (including PRO lacking its associated signal  
peptide, a PRO extracellular domain with or without its associated signal  
peptide). Also included are nucleic acids encoding the PRO proteins  
mentioned above, a vector comprising a PRO nucleic acid, a host cell  
comprising the vector and producing PRO, a chimaeric molecule comprising  
PRO fused to a heterologous amino acid sequence, and an anti-PRO  
antibody. PRO337 polypeptide is useful for detecting a PRO4993  
polypeptide in a sample suspected of containing PRO4993 polypeptide.

CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
CC causes death of the cell. PRO337 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
CC useful for linking a bioactive molecule to a cell expressing PRO725,  
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
CC polypeptide is useful for modulating at least one biological activity of  
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
CC modulating the biological activity of the cell expressing PRO1559  
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
CC PRO739 polypeptide is useful for modulating the biological activity of  
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
CC sports-related joint problems, articular cartilage defects,  
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
CC mammals. The present sequence is a PCR primer used to isolate nucleic  
CC acid encoding a PRO protein.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
Best Local Similarity 92.9%; Pred. No. 4.3e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 215 GAACCTCGTGCGG 228  
Db 18 GAACCTCGTGCGG 5

RESULT 711  
ADE16840/C  
ID ADE16840 standard; DNA; 18 BP.

XX ADE16840;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;  
KW ophthalmological; articular; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.

XX Homo sapiens.

XX US2003203433-A1.

XX 30-OCT-2003.

XX 18-OCT-2001; 2001US-00145016.

XX 06-MAY-1998; 98US-0084414P.  
XX 22-DEC-1998; 98US-0113296P.  
XX 05-JAN-1999; 99WO-US000106.  
XX 08-MAR-1999; 99WO-US005028.  
XX 12-APR-1999; 99US-00284291.  
XX 25-AUG-1999; 99US-00380138.  
XX 18-FEB-2000; 2000WO-US0004341.  
XX 30-JUL-2001; 2001US-00918585.

XX (GETH ) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Garritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI Kijavini IU, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-875640/81.

XX New genes, and its encoded secreted and transmembrane polypeptides,  
PT useful for treating e.g. lung or breast tumors, osteoarthritis,  
PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,  
PT hypoinsulinemia or wounds.

XX Example 4; SEQ ID NO 14; 459pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or  
CC transmembrane protein) having at least 80% amino acid sequence identity  
CC to an amino acid sequence chosen from 94 fully defined sequences as given  
CC in the specification (including PRO lacking its associated signal  
CC peptide, a PRO extracellular domain with or without its associated signal  
CC peptide). Also included are nucleic acids encoding the PRO proteins  
CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
CC comprising the vector and producing PRO, a chimeric molecule comprising  
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
CC causes death of the cell. PRO337 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
CC useful for linking a bioactive molecule to a cell expressing PRO725,  
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
CC polypeptide is useful for modulating at least one biological activity of  
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
CC modulating the biological activity of the cell expressing PRO1559  
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
CC PRO739 polypeptide is useful for modulating the biological activity of  
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
CC sports-related joint problems, articular cartilage defects,  
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
CC mammals. The present sequence is a PCR primer used to isolate nucleic  
CC acid encoding a PRO protein.

XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
Best Local Similarity 92.9%; Pred. No. 4.3e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 215 GAACCTCGTGCGG 228  
Db 18 GAACCTCGTGCGG 5

RESULT 712  
ADE48348/C  
ID ADE48348 standard; DNA; 18 BP.

XX ADE48348;

XX 29-JAN-2004 (first entry)

XX Human PRO 274 PCR primer #4.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
OS Homo sapiens.  
XX  
XX US2003104536-A1.  
XX  
XX 05-JUN-2003.  
XX  
XX 19-OCT-2001; 2001US-00166709.  
XX  
XX 07-OCT-1998; 98WO-US021141.  
XX 20-NOV-1998; 98WO-US024855.  
XX 05-JAN-1999; 99WO-US000106.  
XX 08-MAR-1999; 99WO-US005028.  
XX 10-MAR-1999; 99WO-US005190.  
XX 12-MAY-1999; 99WO-US010733.  
XX 04-JUN-1999; 99WO-US012252.  
XX 20-NOV-1999; 99WO-US028313.  
XX 02-DEC-1999; 99WO-US028551.  
XX 16-DEC-1999; 99WO-US030095.  
XX 30-DEC-1999; 99WO-US031243.  
XX 30-DEC-1999; 99WO-US031274.  
XX 05-JAN-2000; 2000WO-US000219.  
XX 06-JAN-2000; 2000WO-US000277.  
XX 06-JAN-2000; 2000WO-US00376.  
XX 11-FEB-2000; 2000WO-US003565.  
XX 18-FEB-2000; 2000WO-US004341.  
XX 24-FEB-2000; 2000WO-US005004.  
XX 02-MAR-2000; 2000WO-US005841.  
XX 10-MAR-2000; 2000WO-US006319.  
XX 21-MAR-2000; 2000WO-US007532.  
XX 30-MAR-2000; 2000WO-US008439.  
XX 17-MAY-2000; 2000WO-US013705.  
XX 22-MAY-2000; 2000WO-US014042.  
XX 30-MAY-2000; 2000WO-US014941.  
XX 02-JUN-2000; 2000WO-US015264.  
XX 28-JUL-2000; 2000WO-US020710.  
XX 24-AUG-2000; 2000WO-US023328.  
XX 01-DEC-2000; 2000WO-US032678.  
XX 20-DEC-2000; 2000WO-US034956.  
XX 28-FEB-2001; 2001WO-US006520.  
XX 22-MAR-2001; 2001WO-US009552.  
XX 25-MAY-2001; 2001WO-US017092.  
XX 01-JUN-2001; 2001WO-US017800.  
XX 20-JUN-2001; 2001WO-US019692.  
XX 29-JUN-2001; 2001WO-US021066.  
XX 09-JUL-2001; 2001WO-US021735.  
XX 30-JUL-2001; 2001US-00918585.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX  
XX WPI; 2004-008994/01.  
XX  
XX New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO4993 or  
PT PRO337, useful in molecular biology, chromosome and gene mapping, in  
PT generating antisense RNA and DNA, and in gene therapy.  
XX  
XX Example 4; SEQ ID NO 14; 460pp; English.  
XX  
XX The invention relates to an isolated PRO polypeptide (secreted or  
CC transmembrane protein) having at least 80% amino acid sequence identity

CC to an amino acid sequence chosen from 94 fully defined sequences as given  
CC in the specification (including PRO lacking its associated signal  
CC peptide, a PRO extracellular domain with or without its associated signal  
CC peptide). Also included are nucleic acids encoding the PRO proteins  
CC mentioned above, a vector comprising a PRO nucleic acid), a host cell  
CC comprising the vector and producing PRO, a chimaeric molecule comprising  
CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting a  
CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
CC causes death of the cell. PRO337 polypeptide is useful for linking a  
CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
CC useful for linking a bioactive molecule to a cell expressing PRO725,  
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
CC polypeptide is useful for modulating at least one biological activity of  
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
CC modulating the biological activity of the cell expressing PRO1559  
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
CC PRO739 polypeptide is useful for modulating the biological activity of  
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
CC sports-related joint problems, articular cartilage defects,  
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
CC mammals. The present sequence is a PCR primer used to isolate nucleic  
CC acid encoding a PRO protein.  
XX  
XX Sequence 18 BP; 2 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 18;  
Best Local Similarity 92.9%; Pred. No. 4.3e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAACCTCGTGCGCG 228  
DB 18 GAACCTCGTGCGCG 5

RESULT 713  
ADE89449/c  
ID ADE89449 standard; DNA; 18 BP.  
XX  
AC ADE89449;  
XX  
XX 29-JAN-2004 (first entry)  
XX  
XX Human PRO 274 PCR primer #4.  
XX  
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
OS Homo sapiens.  
XX  
XX US2003130181-A1.  
XX  
XX 10-JUL-2003.  
XX  
XX 16-OCT-2001; 2001US-00978375.  
XX  
XX 17-OCT-1997; 97US-0062250P.  
XX 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997;	97US-0065311P.	PR 15-MAY-1998;	98US-0085579P.
PR 21-NOV-1997;	97US-0066364P.	PR 15-MAY-1998;	98US-0085580P.
PR 10-MAR-1998;	98US-0077450P.	PR 15-MAY-1998;	98US-0085582P.
PR 11-MAR-1998;	98US-0077632P.	PR 15-MAY-1998;	98US-0085689P.
PR 11-MAR-1998;	98US-0077641P.	PR 15-MAY-1998;	98US-0085697P.
PR 12-MAR-1998;	98US-0077649P.	PR 15-MAY-1998;	98US-0085700P.
PR 12-MAR-1998;	98US-0077791P.	PR 15-MAY-1998;	98US-0085704P.
PR 13-MAR-1998;	98US-0078004P.	PR 18-MAY-1998;	98US-0086023P.
PR 20-MAR-1998;	98US-0078886P.	PR 22-MAY-1998;	98US-0086392P.
PR 20-MAR-1998;	98US-0078910P.	PR 22-MAY-1998;	98US-0086414P.
PR 20-MAR-1998;	98US-0078936P.	PR 22-MAY-1998;	98US-0086430P.
PR 25-MAR-1998;	98US-0078939P.	PR 22-MAY-1998;	98US-0086486P.
PR 25-MAR-1998;	98US-0079294P.	PR 28-MAY-1998;	98US-0087098P.
PR 26-MAR-1998;	98US-0079656P.	PR 28-MAY-1998;	98US-0087108P.
PR 27-MAR-1998;	98US-0079663P.	PR 28-MAY-1998;	98US-0087208P.
PR 27-MAR-1998;	98US-0079664P.	PR 26-JUN-1998;	98US-0090863P.
PR 27-MAR-1998;	98US-0079689P.	PR 01-JUL-1998;	98US-0091359P.
PR 27-MAR-1998;	98US-0079786P.	PR 30-JUL-1998;	98US-0094651P.
PR 30-MAR-1998;	98US-0079920P.	PR 11-SEP-1998;	98US-0100038P.
PR 30-MAR-1998;	98US-0079923P.	PR 07-OCT-1998;	98WO-US021141.
PR 31-MAR-1998;	98US-0080105P.	PR 20-NOV-1998;	98US-0109304P.
PR 31-MAR-1998;	98US-0080107P.	PR 20-NOV-1998;	98WO-US024855.
PR 31-MAR-1998;	98US-0080165P.	PR 22-DEC-1998;	98US-0113296P.
PR 31-MAR-1998;	98US-0080194P.	PR 23-DEC-1998;	98US-0113621P.
PR 01-APR-1998;	98US-0080327P.	PR 05-JAN-1999;	98WO-US000106.
PR 01-APR-1998;	98US-0080328P.	PR 08-MAR-1999;	98WO-US005028.
PR 01-APR-1998;	98US-0080333P.	PR 10-MAR-1999;	98WO-US005190.
PR 01-APR-1998;	98US-0080334P.	PR 12-MAR-1999;	99US-0123957P.
PR 08-APR-1998;	98US-0081049P.	PR 29-MAR-1999;	99US-0126773P.
PR 08-APR-1998;	98US-0081070P.	PR 21-APR-1999;	99US-0130232P.
PR 08-APR-1998;	98US-0081711P.	PR 26-APR-1999;	99US-0131022P.
PR 09-APR-1998;	98US-0081195P.	PR 28-APR-1999;	99US-0131445P.
PR 09-APR-1998;	98US-0081203P.	PR 14-MAY-1999;	99US-0134287P.
PR 09-APR-1998;	98US-0081229P.	PR 14-MAY-1999;	98WO-US010733.
PR 15-APR-1998;	98US-0081817P.	PR 02-JUN-1999;	98WO-US012252.
PR 15-APR-1998;	98US-0081819P.	PR 16-JUN-1999;	99US-0139557P.
PR 15-APR-1998;	98US-0081838P.	PR 23-JUN-1999;	99US-0141037P.
PR 15-APR-1998;	98US-0081953P.	PR 07-JUL-1999;	99US-0142680P.
PR 15-APR-1998;	98US-0081955P.	PR 26-JUL-1999;	99US-0145698P.
PR 21-APR-1998;	98US-0082568P.	PR 28-JUL-1999;	99US-0146222P.
PR 21-APR-1998;	98US-0082569P.	PR 23-OCT-1999;	99US-0162506P.
PR 22-APR-1998;	98US-0082700P.	PR 30-NOV-1999;	98WO-US028313.
PR 22-APR-1998;	98US-0082704P.	PR 02-DEC-1999;	99WO-US028551.
PR 22-APR-1998;	98US-0082797P.	PR 02-DEC-1999;	99WO-US028565.
PR 23-APR-1998;	98US-0082804P.	PR 16-DEC-1999;	99WO-US030095.
PR 27-APR-1998;	98US-0082796P.	PR 30-DEC-1999;	99WO-US031243.
PR 27-APR-1998;	98US-0083338P.	PR 30-DEC-1999;	99WO-US031274.
PR 29-APR-1998;	98US-0083322P.	PR 03-JAN-2000;	2000WO-US000219.
PR 29-APR-1998;	98US-0083392P.	PR 06-JAN-2000;	2000WO-US000277.
PR 29-APR-1998;	98US-0083495P.	PR 06-JAN-2000;	2000WO-US000376.
PR 29-APR-1998;	98US-0083496P.	PR 11-FEB-2000;	2000WO-US003565.
PR 29-APR-1998;	98US-0083499P.	PR 18-FEB-2000;	2000WO-US004341.
PR 29-APR-1998;	98US-0083500P.	PR 24-FEB-2000;	2000WO-US005004.
PR 29-APR-1998;	98US-0083554P.	PR 02-MAR-2000;	2000WO-US005841.
PR 29-APR-1998;	98US-0083555P.	PR 10-MAR-2000;	2000WO-US006319.
PR 29-APR-1998;	98US-0083558P.	PR 21-MAR-2000;	2000WO-US007532.
PR 29-APR-1998;	98US-0083559P.	PR 30-MAR-2000;	2000WO-US008439.
PR 30-APR-1998;	98US-0083742P.	PR 17-MAY-2000;	2000WO-US013705.
PR 05-MAY-1998;	98US-0084366P.	PR 22-MAY-2000;	2000WO-US014042.
PR 06-MAY-1998;	98US-0084414P.	PR 30-MAY-2000;	2000WO-US014941.
PR 06-MAY-1998;	98US-0084441P.	PR 02-JUN-2000;	2000WO-US015264.
PR 07-MAY-1998;	98US-0084598P.	PR 28-JUL-2000;	2000WO-US020710.
PR 07-MAY-1998;	98US-0084600P.	PR 24-AUG-2000;	2000WO-US023328.
PR 07-MAY-1998;	98US-0084627P.	PR 01-DEC-2000;	2000WO-US032678.
PR 07-MAY-1998;	98US-0084637P.	PR 20-DEC-2000;	2000WO-US034956.
PR 07-MAY-1998;	98US-0084640P.	PR 28-FEB-2001;	2001WO-US006520.
PR 07-MAY-1998;	98US-0084643P.	PR 22-MAR-2001;	2001WO-US009552.
PR 13-MAY-1998;	98US-0085323P.	PR 25-MAY-2001;	2001WO-US017092.
PR 13-MAY-1998;	98US-0085338P.	PR 01-JUN-2001;	2001WO-US017800.
PR 13-MAY-1998;	98US-0085339P.	PR 20-JUN-2001;	2001WO-US019692.
PR 15-MAY-1998;	98US-0085573P.	PR 29-JUN-2001;	2001WO-US021066.
		PR 09-JUL-2001;	2001WO-US021735.

```

PR XX 30-JUL-2001; 2001US-00918585.
PA (ASHK/) ASHKENAZI A J.
PA (BAKE/) BAKER K P.
PA (BOTS/) BOTSTEIN D.
PA (DESN/) DESNOYERS L.
PA (EATO/) EATON D L.
PA (FERR/) FERRARA N.
PA (FILV/) FILVAROFF E.
PA (FONG/) FONG S.
PA (GAOW/) GAO W.
PA (GERB/) GERBER H.
PA (GERR/) GERRITSEN M E.
PA (GODD/) GODDARD A.
PA (GODO/) GODOWSKI P J.
PA (GIRM/) GIRMALDI J C.
PA (GURN/) GURNEY A L.
PA (HILL/) HILLAN K J.
PA (KLJA/) KLJAVIN I J.
PA (KUOS/) KUO S S.
PA (NAPI/) NAPIER M A.
PA (PANJ/) PAN J.
PA (PAON/) PAONI N F.
PA (ROYM/) ROY M A.
PA (SHEL/) SHELTON D L.
PA (STEW/) STEWART T A.
PA (TUNA/) TUNAS D.
PA (WILL/) WILLIAMS P M.
PA (WOOD/) WOOD W I.
XX

Query Match 2.9%; Score 12.4; DB 1; Length 18;
Best Local Similarity 92.9%; Pred. No. 4.3e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 215 GAATCGTGGTGGCGG 228
Db 18 GAATCGTGGTGGCGG 5

RESULT 714
AAQ11087/c
ID AAQ11087 standard; DNA; 19 BP.
XX
AC AAQ11087;
XX
DT 25-MAR-2003 (revised)
DT 09-JAN-2003 (revised)
DT 30-MAY-1991 (first entry)
XX
DE Probe/primer A(ii) to recombinant M.tuberculosis antigenic peptides.
XX tuberculosis; vaccine; BCG; antigen; ss.
XX
OS Mycobacterium tuberculosis.
XX
PN EP419355-A.
XX
PD 27-MAR-1991.
XX
PF 19-SEP-1990; 90EP-00402590.
XX
PR 19-SEP-1989; 89EP-00402571.
XX
PA (INNO-) INNOGENETICS NV SA.
XX
PI Content J, Dewit L, Debruyne J, Vanvooren JP;
XX WPI; 1991-088933/13.
XX
PT Polypeptide comprising recombinant polypeptide - with defined peptide
sequence(s) used for diagnosis and for preparing vaccine against
tuberculosis.

Claim 23; Page 66; 134pp; English.
This oligonucleotide is one of 13 sequences which hybridise to nucleotide
sequences coding for recombinant tuberculosis antigenic polypeptides.
When used as probes they could differentiate M.tuberculosis from other
bacterial strains. When used as primers, the oligonucleotides amplify
specific mycobacterial sequences (e.g. nucleotides 1-1358 of the BCG
alpha-antigen). Amplified sequences are then detected using one of the
other probes. Primer kits are claimed which comprise primer A(ii) with
the complement of one of the other 13 primers. See also AAQ11081-3,
CC AAQ11086, AAQ11088-90, AAQ11101-8, AAR11297-R11304. (Updated on 09-JAN-
CC 2003 to add missing OS field.) (Updated on 25-MAR-2003 to correct PI
field.)
XX
SQ Sequence 19 BP; 1 A; 6 C; 8 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 387 GACGGCGCCAGAA 400
Db 16 GACGGCGCCAGAA 3

RESULT 715
AAQ54140/c
ID AAQ54140 standard; DNA; 19 BP.
XX
AC AAQ54140;
XX
DT 25-MAR-2003 (revised)
DT 15-JUN-1994 (first entry)
XX
DE Hybridisation probe BGI A.
XX
XX Simultaneous sequencing; ss.
XX
OS Synthetic.
XX
PN WO9324654-A1.
XX
PD 09-DEC-1993.
XX
PF 01-JUN-1993; 93WO-EP001376.
XX
PR 02-JUN-1992; 92DE-04218152.
XX
PA (BOEF) BOEHRINGER MANNHEIM GMBH.
XX
PI Sagner G, Blum H, Domdey H;
XX WPI; 1993-405842/50.
XX
PT Simultaneously sequencing many nucleic acid fragments - by cloning in
vector after attachment of double strands adaptors, and sequencing
selected clones, for high cloning efficiency with only one vector.
XX
PS Example 4; Page 26; 47pp; German.
XX
CC The sequence is that of hybridisation probe BGI A which was used as part
of a method of simultaneously sequencing nucleic acids. (Updated on 25-
CC MAR-2003 to correct PN field.)
XX
SQ Sequence 19 BP; 3 A; 6 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. No. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 221 GGTCGGCGCCAAAT 234
Db 16 GGTCGGCGCCAAAT 3

```

Db 19 GGTGGGGCCACAT 6

RESULT 716

AAT43117

ID AAT43117 standard; DNA; 19 BP.

XX

AC AAT43117;

XX

DT 05-SEP-1997 (first entry)

XX

DE Antisense primer to amplify hormone sensitive lipase gene.

XX

KW Immortalised cell line; pre-adipocyte; viral oncogene; lipolysis; marker;

KW thermogenesis; diabetes; obesity; cell culture; differentiation; mature;

KW medium; insulin; dexamethasone; primer; PCR; polymerase chain reaction;

KW amplification; hormone sensitive lipase; ss.

XX

OS Synthetic.

XX

FN WO9634100-A1.

XX

PD 31-OCT-1996.

XX

XX

PF 25-APR-1996; 96WO-FR000634.

XX

PR 25-APR-1995; 95FR-00004922.

XX

XX (CNRS ) CNRS CENT NAT RECH SCI.

PA Strosberg AD, Zilberfarb V;

PI

XX

XX WPI; 1996-497632/49.

DR

XX

PT Immortalised pre-adipocytes contg viral oncogene fragment - useful for

PT identifying cpds that regulate lipolysis and thermogenesis, as lipolytic

PT agents and models for studying adipocyte processes.

XX

XX Example 1; Page 17; 52pp; French.

PS

XX

CC The invention relates to new immortalised cell lines derived from pre-

CC adipocytes containing an immortalising fragment of a viral oncogene. The

CC immortalised adipocytes are used to identify substances able to regulate

CC lipolysis and/or thermogenesis (potential therapeutic agents for treating

CC diabetes and obesity). The cell lines have the advantage that they can be

CC maintained in long term culture (contrast primary cultures of adipocytes)

CC without loss of characteristic markers or ability to differentiate. The

CC immortalised pre-adipocytes differentiate into mature adipocytes when

CC placed in a medium containing insulin and dexamethasone. The primers

CC AAT43098-19 are used to amplify marker genes to verify differentiation of

CC the pre-adipocytes into mature adipocytes. Primers AAT43116-7 were used

CC to amplify a 286 bp region of the gene encoding a hormone sensitive

CC lipase, a marker for mature "brown" adipocytes

XX

SQ Sequence 19 BP; 1 A; 9 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;

Best Local Similarity 92.9%; Pred. No. 4.8e-02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 364 TCCTCAGTTCCTG 377

DB 3 TCCTCAGTTCCTG 16

RESULT 717

AAT16004

ID AAT16004 standard; DNA; 19 BP.

XX

AC AAT16004;

XX

DT 28-JUN-1996 (first entry)

XX

XX

DE 5' allele-specific primer for HLA-Cw6 amplification.

XX

KW tumour rejection antigen; detection; cancer; tissue type; HLA-B44;

KW human leukocyte antigen; immunogenic; primer; PCR; ss.

XX

OS Synthetic.

XX

FN WO9533855-A1.

XX

PD 14-DEC-1995.

XX

XX

PF 31-MAY-1995; 95WO-US006852.

XX

PR 03-JUN-1994; 94US-00253503.

PR 17-JAN-1995; 95US-00373636.

XX

XX (LUDW-) LUDWIG INST CANCER RES.

PA

XX

PI Boon-Falleur T, Coullie P;

XX

XX WPI; 1996-049316/05.

XX

XX Nucleic acid encoding tumour rejection antigen precursor - useful in

PT assay for determining cancerous condition in patient of e.g. tissue type

PT HLA-B44.

PT

XX

XX Example 9; Page 13; 44pp; English.

PS

XX

CC AAT15996-16007 are allele-specific primers that were used to discriminate

CC each of six HLA alleles that had been serologically typed in a LB33 cell

CC line (a melanoma cell line). Amplification refractory mutation system was

CC used, which relies on a perfect nucleotide match at the 3' end of primers

CC to ensure specificity of DNA amplifications. It was suggested that A24-

CC B13-Cw6, and A28-B44-Cw7 constitute two HLA Class I haplotypes of

CC patient LB33, and that reduced expression of these haplotypes probably

CC accounted for loss of antigen expression by immunoselected tumour cells.

CC The invention concerns a nucleic acid (AAT08972) which encodes a tumour

CC rejection antigen, which can be used in determining cancerous conditions

CC in patients of tissue type HLA-B44

XX

SQ Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;

Best Local Similarity 92.9%; Pred. No. 4.8e-02;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20

DB 3 GAGTGAACCTGCGG 16

RESULT 718

AAT79214

ID AAT79214 standard; DNA; 19 BP.

XX

AC AAT79214;

XX

XX

DT 25-MAR-2003 (revised)

DT 25-FEB-1998 (first entry)

XX

XX HLA-Cw6 allele-specific 5' PCR primer.

XX

XX Tumour rejection antigen precursor; TRAP; HLA-Cw6; HLA-B44;

KW human leukocyte antigen B44; cytotoxic T lymphocyte; cancer; melanoma;

KW therapy; diagnosis; vaccine; primer; PCR; ss.

XX

OS Synthetic.

OS Homo sapiens.

XX

XX WO9731017-A1.

PN

XX

PD 28-AUG-1997.

XX



```

PF 05-FEB-1997; 97WO-US001915.
XX
XX 20-FEB-1996; 96US-00602506.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Herman J, Coulie P, Boonfalleur T, Van Der Bruggen P, Luescher I;
XX
XX WPI; 1997-435086/40.
XX
XX Tumour rejection antigens presented by human leukocyte antigen B44
XX molecules - useful to identify HLA-B44 positive cells for diagnosis and
XX therapy of cellular abnormalities.
XX
XX Example 9; Page 15; 74pp; English.
XX
XX 2 Oligonucleotides (AAT79214 and AAT79215) respectively comprise 5' and
XX 3' primers for the specific PCR amplification of HLA-Cw6 sequences.
XX Melanoma LB33 cell lines have been serologically typed as HLA-A24, A28,
XX B13, B44, Cw6, Cw7. Semi-quantitative conditions for DNA amplification by
XX PCR were established to assess the expression of each of the 6 class I
XX alleles by different LB33-MEL tumour cell clones. Primers (AAT79206-17)
XX were designed to enable discrimination of each allele from the 5 others.
XX The results suggest that A24-B13-Cw6 and A28-B44-Cw7 constitute 2 HLA
XX class I haplotypes of patient LB33, and that reduced expression of these
XX haplotypes accounts for loss of antigen expression by immunoselected
XX tumour cells. Claimed tumour rejection antigens (see AAT23038-43)
XX presented by HLA-B44 molecules can be used in methods for the diagnosis
XX and therapy of cellular abnormalities involving expression of a tumour
XX rejection antigen precursor, such as cancer, especially melanoma.
XX (Updated on 25-MAR-2003 to correct PI field.)
XX
XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 92.9%; Pred. NO. 4.8e+02;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20
DB 3 GAGTGAACCTGCGG 16

RESULT 719
AAT2948
ID AAT92948 standard; RNA; 19 BP.
AC AAT92948;
XX
XX 24-APR-1998 (first entry)
XX
XX Antisense oligonucleotide which inhibits VEGF expression.
XX
XX Antisense oligonucleotide; cellular vascular endothelial growth factor;
XX VEGF; vascular permeability factor; blood vessel formation; angiogenesis;
XX vascular permeability induction; disease progression;
XX increased angiogenesis; phosphorothioate; ss.
XX
XX Synthetic.
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..19
XX /*tag= a
XX /note= "Phosphorothioate linkage between each residue; C5
XX -propynyl pyrimidines"
XX
XX WO9739120-A2.
XX
XX 23-OCT-1997.
XX
XX 17-APR-1997; 97WO-US006412.
XX
17-APR-1996; 96US-0015752p.
XX
XX (ARON-) ARONEX PHARM INC.
XX
XX Chaudhary N, Rao T, Revankar GR, Cossum PA, Rando RF, Peyman A;
XX Uhlmann E;
XX
XX WPI; 1997-526457/48.
XX
XX Antisense oligonucleotide(s) inhibiting VEGF expression - used for
XX treating diseases characterised by vascularisation and vascular
XX permeability, e.g. diabetic retinopathy.
XX
XX Claim 40; Page 43; 64pp; English.
XX
XX Novel antisense oligonucleotides AAT92942-62 reduce cellular vascular
XX endothelial growth factor (VEGF) production in cells. Inclusion of a C5-
XX propynyl uridine, or a C5-propynyl cytidine nucleotide residue in the
XX oligonucleotide sequence increases the duplex melting temperature by at
XX least 5 degrees celcius. VEGF, also known as vascular permeability
XX factor, is necessary for the formation of blood vessels (angiogenesis)
XX during growth and developmental processes, and for tissue repair. This
XX growth factor induces vascular permeability, is chemotactic for monocytes
XX and osteoblasts, and is a selective mitogen for endothelial cells.
XX Abnormally high concentrations of VEGF are associated with diseases
XX characterised by a high degree of vascularisation or vascular
XX permeability. Cells treated with the antisense oligonucleotides at
XX concentrations of less than 1 micromolar, produce no more than 90% of the
XX VEGF that is produced by untreated cells. The antisense oligonucleotides
XX can be used for slowing the progression of diseases associated with
XX increased angiogenesis and vascular permeability. They can be used in the
XX treatment of diabetic retinopathy, aggressive cancers, psoriasis,
XX rheumatoid arthritis and other inflammatory conditions
XX
XX Sequence 19 BP; 5 A; 5 C; 6 G; 0 T; 3 U; 0 Other;
XX
Query Match 2.9%; Score 12.4; DB 1; Length 19;
Best Local Similarity 85.7%; Pred. NO. 4.8e+02;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 39 GAAGATGCCACCA 52
DB 1 GAAGAUGUCCACCA 14

RESULT 720
AAT62046
ID AAT62046 standard; DNA; 19 BP.
AC AAT62046;
XX
XX 25-MAR-2003 (revised)
XX 29-OCT-1997 (first entry)
XX
XX HLA-Cw6 allele 5' PCR primer.
XX
XX HLA-B24; HLA-B44; tumour rejection antigen precursor; TRAP; cancer;
XX human; melanoma; diagnosis; therapy; polymerase chain reaction; PCR;
XX primer; ss.
XX
XX Synthetic.
XX
XX WO9710837-A1.
XX
XX 27-MAR-1997.
XX
XX 19-SEP-1996; 96WO-US015078.
XX
XX 21-SEP-1995; 95US-00531864.
XX
XX (LUDW-) LUDWIG INST CANCER RES.
XX
XX Herman J, Coulie P, Van Der Bruggen P, Boonfalleur T;
XX

```

XX WPI; 1997-202614/18.  
 XX HLA-B44 molecule binding peptide(s) - useful to identify HLA-B44 positive  
 PT cells, and develop products for diagnosis and therapy of, e.g. cancer.  
 XX  
 XX Example 9; Page 13; 55pp; English.  
 XX  
 XX This 5' primer is specific for class I allele HLA-Cw6. Allele-specific  
 CC primers (AAT62038-49) enable discrimination of each of the six class I  
 CC alleles (HLA-A24, A28, B13, B44, Cw6 and Cw7) of melanoma patient IB33.  
 CC DNA from different LB33-MEL tumour cell clones was subjected to PCR  
 CC amplification. The results showed that A24-B13-Cw6 and A28-B44-Cw7  
 CC constitute two HLA class I haplotypes of patient IB33, and that reduced  
 CC expression of these haplotypes probably accounts for loss of antigen  
 CC expression by immunoselected tumour cells. HLA-B44 binding peptides  
 CC (AAW13251-56) can be used to identify HLA-B44 positive cells, and to  
 CC develop products for the diagnosis and therapy of e.g. cancer,  
 CC particularly melanoma. (Updated on 25-MAR-2003 to correct PI field.)  
 XX  
 XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
 SQ

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTCAAACTCGG 20  
 |||||  
 Db 3 GAGTCAAACTCGG 16

RESULT 721  
 AAX59110/c  
 ID AAX59110 standard; DNA; 19 BP.  
 XX  
 AC AAX59110;  
 XX  
 XX 31-AUG-1999 (first entry)  
 DT Human nuclear receptor NMR5 PCR primer R5R4.  
 DE  
 DE Nuclear receptor protein; NMR5; human; retina; eye disease; therapy;  
 KW diagnosis; PCR; primer; ss.  
 KW  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 XX WO9929725-A1.  
 PN  
 XX 17-JUN-1999.  
 PD  
 XX 11-DEC-1998; 98WO-US026422.  
 PF  
 XX 12-DEC-1997; 97US-0069379P.  
 PR  
 XX (MERI) MERCK & CO INC.  
 PA  
 XX Chen F;  
 PI  
 XX WPI; 1999-385576/32.  
 DR  
 XX DNA encoding human nuclear receptor NMR5.  
 PT  
 XX Example 1; Page 32; 57pp; English.  
 PS  
 XX This oligonucleotide comprises PCR primer R5R4, which was used with  
 CC primer R5F3 (see AAX59109) to define the intron-exon boundary in a cDNA  
 CC clone (see AAX59096) that had been isolated from a human retina cDNA  
 CC library and which coded for a novel member of the nuclear receptor  
 CC superfamily. An intronless clone (see AAX59095) was subsequently  
 CC amplified from the retina cDNA library. This encoded NMR5 (see AAY06301),  
 CC a novel member of the human nuclear factor superfamily. NMR5 is expressed  
 CC at high levels in the retina and may therefore play a role in eye

CC function. The invention also provides recombinant vectors and host cells,  
 CC methods of screening for modulators of NMR5 activity, and production of  
 CC antibodies against NMR5  
 XX  
 SQ Sequence 19 BP; 2 A; 7 C; 8 G; 2 T; 0 U; 0 Other;  
 XX

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 336 GACCAGGCGCGGCT 349  
 |||||  
 Db 18 GCCCAGGCGCGGCT 5

RESULT 722  
 AAZ87065/c  
 ID AAZ87065 standard; DNA; 19 BP.  
 XX  
 AC AAZ87065;  
 XX  
 XX 16-MAY-2000 (first entry)  
 DT  
 XX RBP-7 microsequencing primer for marker S-143-84.  
 DE  
 DE RBP-7; retinoblastoma binding protein-7; abnormal cell proliferation;  
 KW diagnosis; therapy; cell differentiation; thyroid hyperplasia; psoriasis;  
 KW benign prostate hypertrophy; cancer; sarcoma; neoplasm; leukaemia;  
 KW lymphoma; biallelic marker; primer; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 XX WO200000607-A1.  
 PN  
 XX 06-JAN-2000.  
 PD  
 XX 30-JUN-1999; 99WO-IB001242.  
 PF  
 XX 30-JUN-1998; 98US-0091315P.  
 PR  
 XX 10-DEC-1998; 98US-0111909P.  
 PR  
 XX (GEST) GENSET.  
 PA  
 XX Bougueleret L;  
 PI  
 XX WPI; 2000-117170/10.  
 DR  
 XX Novel nucleic acid and polymorphic markers used for diagnosis of  
 PT diseases, especially those involving abnormal cell proliferation and  
 PT differentiation.  
 PT  
 XX Claim 15; Page 218; 223pp; English.  
 PS  
 XX This sequence represents a microsequencing primer for a biallelic marker  
 CC from the retinoblastoma binding protein-7 (RBP-7) genomic sequence  
 CC (AAZ86967) of the invention. The RBP-7 coding sequence and regulatory  
 CC sequences are useful for the recombinant production of the protein and  
 CC for expressing heterologous nucleic acids. Primers and probes derived  
 CC from the RBP-7 nucleotide sequence (such as this sequence) are useful for  
 CC DNA amplification and detection methods. RBP-7 biallelic markers (see  
 CC AAZ86993-287034) are useful for diagnosis of disease related to  
 CC alteration in the regulation or in the coding regions of the RBP-7 gene  
 CC and for prognosis/diagnosis of an eventual treatment with therapeutic  
 CC agents, especially agents acting on pathologies involving abnormal cell  
 CC proliferation and/or differentiation, these include thyroid hyperplasia,  
 CC psoriasis, benign prostate hypertrophy, cancers, including breast cancer,  
 CC sarcomas and other neoplasms, bladder cancer, colon cancer, lung cancer,  
 CC prostate cancer, various leukaemias, and lymphomas. RBP-7 antibodies are  
 CC useful as diagnostic agents  
 XX  
 SQ Sequence 19 BP; 3 A; 9 C; 3 G; 4 T; 0 U; 0 Other;  
 XX

Query Match 2.9%; Score 12.4; DB 1; Length 19;

XX Haemagglutination or haemadsorption related DNA SK-2.  
DE Haemagglutination; haemadsorption; fungal infection; phenoloxidase; ds.  
KW Unidentified.  
XX KR2001005404-A.  
XX  
XX 15-JAN-2001.  
XX  
XX 28-JUN-1999; 99KR-00026408.  
XX  
XX 28-JUN-1999; 99KR-00026408.  
XX (SAMY-) SAMYANG GENEX CORP.  
XX  
XX Hong SS, Lee BR, Lee HS, Lee HS, Park JJ;  
XX WPI; 2001-472806/51.  
XX Protein related to hemagglutination or hemadsorption reaction and gene  
XX thereof.  
XX Disclosure; Page 7; 9pp; Korean.  
XX The invention relates to a protein related to the hemagglutination or  
CC hemadsorption reaction and the gene thereof are provided to screen  
CC effective candidates in the diagnosis of fungal infection. The protein of  
CC the invention performs coagulation of foreign material. A phenoloxidase  
CC distinguishes and recognises self and non-self selectively. The  
CC phenoloxidase and the gene thereof induce coagulation and adsorption of a  
CC foreign material by using blood cell so as to block diffusion. The  
CC protein selectively removes fungi and bacteria invading a body, and is  
CC used in the diagnosis of pathogenic foreign material. A pro-phenoloxidase  
CC is used in detection of melanin forming repressor. The current sequence  
CC represents haemagglutination or haemadsorption related DNA referred to as  
CC SK-2

XX Sequence 19 BP; 5 A; 5 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 39 GAAGATGCCACCA 52  
DB 4 GAAGAGGGCCACCA 17  
|||||  
|||||

RESULT 725  
AAH24334/c  
ID AAH24334 standard; DNA; 19 BP.  
XX  
XX AC AAH24334;  
XX  
XX DT 06-AUG-2001 (first entry)  
DE F2718 (pIR-BgIII-forward) miz-1 proto-oncogene PCR primer.  
XX  
XX DE F2718; miz-1; forward PCR primer; Leishmania tarentolae; proto-oncogene;  
KW ss; pIR-BgIII-forward; colony-PCR.  
XX  
XX OS Synthetic.  
XX WO200132896-A1.  
XX  
XX 10-MAY-2001.  
XX  
XX 02-NOV-2000; 2000WO-EP010794.  
XX  
XX 05-NOV-1999; 99EP-00122222.  
XX

CC The invention relates to an in vivo or in vitro cell-free method for  
CC genetic repair of mutations in plastid genes. The method involves  
CC reacting a plastid which contains a specific point or frameshift mutation  
CC of interest, a chimeric RNA/DNA oligonucleotide or a modified single  
CC stranded oligonucleotide which is believed to contain the genetic code  
CC for correcting the gene mutation, and a chloroplast extract taken from  
CC the plant of interest. The method of the invention is useful for plant  
CC genetic repair. It may also be used in the mechanistic study of plastid  
CC gene repair, and facilitates the direct comparison between plant nuclear  
CC and organelle DNA repair pathways. The cell-free assay may be used in  
CC elucidating plastid DNA recombination and repair pathways in plant cells  
CC as well as the identification and characterisation of proteins involved  
CC in the process. The current sequence represents a fragment of the  
CC chimeric oligonucleotide Kan4021C. This sequence is used in an example  
CC from the invention in which a point mutation in the kanamycin resistance  
CC gene contained in plasmid pKsm4021 is converted in order to restore  
CC kanamycin resistance activity. The chimeric oligonucleotide fragment  
CC given here shows that the base conversion has occurred  
CC  
CC Sequence 19 BP; 4 A; 5 C; 6 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.4; DB 1; Length 19;  
Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 155 CGGCTTCGACTGG 168  
DB 4 CGGCTACGACTGG 17  
RESULT 727  
AD25739/C  
ID ADA25739 standard; RNA; 19 BP.  
XX  
AC ADA25739;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human REL-A short interfering nucleic acid SEQ ID NO:87.  
XX  
KW short interfering nucleic acid; siNA; nuclear factor kappa B; NF-kappaB;  
KW RNA interference; vasotropic; nontropic; antiparkinsonian;  
KW neuroprotective; cytostatic; antiinflammatory; antiallergic; virucide;  
KW anti-HIV; immunosuppressive; anticonvulsant; nephrotoxic; gene therapy;  
KW modulation; inhibition; restenosis; central nervous system lesion;  
KW Alzheimer's disease; Parkinson's disease; Huntington's disease; epilepsy;  
KW dementia; amyotrophic lateral sclerosis; cancer; allergic disease;  
KW polycystic kidney disease; inflammatory disease; viral infection;  
KW human; v-rel reticuloendotheliosis viral oncogene homologue A; REL-A;  
KW nuclear factor; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN WO2003070970-A2.  
XX  
PD 28-AUG-2003.  
XX  
PP 20-FEB-2003; 2003WO-US004951.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 13-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Mcswiggen J, Beigelman L;  
XX

PA (JENA-) JENA BIOSCIENCE GMBH.  
FI Alexandrov K, Grun M;  
XX  
XX WPI; 2001-316448/33.  
DR  
XX  
PT A new recombinant protein expression system using non pathogenic  
PT Kinetoplastidae type host cells such as Leishmania tarentolae allows  
PT large scale production on inexpensive media.  
XX  
XX Example 1; Page 15; 37pp; English.  
PS  
XX  
CC The present sequence represents PCR forward primer-F2718 (pIR-BgIII-  
CC forward), used to identify clones of E. coli TG1 which had been  
CC transformed with the pIR plasmid containing the miz-1 sequence insert in  
CC the right orientation. The present sequence was used to identify these  
CC clones using colony-PCR. This was part of an experiment of the invention  
CC to express miz-1 in Leishmania tarentolae. The invention comprises an  
CC expression and delivery system for the production of recombinant protein  
CC with cultivated non-pathogenic Kinetoplastidae parasites. The invention  
CC is used to express heterologous proteins or to deliver heterologous  
CC proteins into plant or animal cells, unlike prior art recombinant protein  
CC expression in Kinetoplastidae, this invention uses non-pathogenic species  
CC which do not carry the associated health risks, does not require  
CC expensive, uncommon media, and has a relatively high growth rate  
CC  
CC Sequence 19 BP; 2 A; 7 C; 6 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.4; DB 1; Length 19;  
Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 255 TCGCCACCGGTGCA 268  
DB 15 TCGCCACCGGTGCA 2  
RESULT 726  
ABQ79482  
ID ABQ79482 standard; DNA; 19 BP.  
XX  
AC ABQ79482;  
XX  
DT 15-NOV-2002 (first entry)  
XX  
DE Chimeric oligonucleotide Kan4021C fragment #2.  
XX  
KW Mutation; genetic repair; point mutation; frameshift mutation; plant;  
KW plastid; chloroplast; repair; DNA recombination; ss.  
XX  
OS Synthetic.  
XX  
PN WO200259380-A2.  
XX  
PD 01-AUG-2002.  
XX  
PP 07-JAN-2002; 2002WO-US000338.  
XX  
PR 05-JAN-2001; 2001US-0260076P.  
XX  
PA (ROBE-) ROBERTS NOBLE FOUND INC SAMMUEL.  
XX  
PI May GD, Kmiec EB;  
XX  
XX WPI; 2002-599808/54.  
DR  
XX  
PT Modifying a target site of a plastid gene-of-interest, useful for plant  
PT genetic repair, comprises reacting chimeric RNA/DNA oligonucleotides or  
PT modified DNA oligonucleotides in conjunction with a cell-free chloroplast  
PT lysate.  
XX  
XX Example 1; Fig 2; 28pp; English.  
PS  
XX

DR WPI; 2003-689788/55.  
 XX New short interfering nucleic acid downregulates expression of the NF-  
 PT kappaB gene useful e.g. for treatment and diagnosis of cancer and  
 PT inflammation.  
 XX  
 XX Example 3; Page 129; 149pp; English.  
 XX  
 CC The present invention describes a short interfering nucleic acid (siNA)  
 CC that downregulates expression of a nuclear factor kappa B (NF-kappaB)  
 CC gene by RNA interference. Also described: (1) kits for in vitro or in  
 CC vivo delivery of siNA; (2) conjugates and/or complexes of siNA; and (3)  
 CC vectors that express siNA. The siNAs have vasotropic, neurotropic,  
 CC antiparkinsonian, neuroprotective, cytostatic, antiinflammatory,  
 CC anti-allergic, virucide, anti-HIV, immunosuppressive, anticonvulsant and  
 CC nephrotropic activities, and can be used in gene therapy, and for the  
 CC modulation (inhibition) of expression or activity of NF-kappaB by RNA  
 CC interference (siNA target mRNA, pre-RNA and/or RNA templates). The siNA  
 CC sequences can be used to modulate expression of NF-kappaB genes, in  
 CC cells, tissue explants or organisms, e.g. by ex vivo gene therapy, in  
 CC grafts and transplants for treating restenosis and central nervous system  
 CC lesions and injuries (Alzheimer's, Parkinson's or Huntington's diseases,  
 CC epilepsy, dementia or amyotrophic lateral sclerosis) or for treating many  
 CC cancers, other proliferative diseases (restenosis and polycystic kidney  
 CC disease), inflammatory and/or allergic diseases, viral infections  
 CC (including HIV), autoimmune diseases and transplant rejection, and also  
 CC for drug screening; diagnosis; target identification and validation;  
 CC genetic engineering; pharmacogenomics; studying gene function and gene  
 CC mapping (e.g. of single-nucleotide polymorphisms). The present sequence  
 CC represents human v-rel reticuloendotheliosis viral oncogene homologue A  
 CC (REL-A) siNA, which is used in the exemplification of the present  
 CC invention. REL-A is a nuclear factor of the kappa light polypeptide gene  
 CC enhancer in B-cells.  
 XX  
 SQ Sequence 19 BP; 1 A; 9 C; 8 G; 0 T; 1 U; 0 Other;  
 Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 OY 305 GAGCCCGGGGACC 318  
 DB 15 GAGCCCGGGGCCC 2  
 RESULT 728  
 ADA26088  
 ID ADA26088 standard; RNA; 19 BP.  
 XX  
 AC ADA26088;  
 XX  
 XX 20-NOV-2003 (first entry)  
 DE Human REL-A short interfering nucleic acid SEQ ID NO:223.  
 XX  
 XX short interfering nucleic acid; siNA; nuclear factor kappa B; NF-kappaB;  
 KW RNA interference; vasotropic; neurotropic; antiparkinsonian;  
 KW neuroprotective; cytostatic; antiinflammatory; anti-allergic; virucide;  
 KW anti-HIV; immunosuppressive; anticonvulsant; nephrotropic; gene therapy;  
 KW modulation; inhibition; restenosis; central nervous system lesion;  
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease; epilepsy;  
 KW dementia; amyotrophic lateral sclerosis; cancer;  
 KW polycystic kidney disease; inflammatory disease; allergic disease;  
 KW viral infection; HIV; autoimmune disease; transplant rejection; ribozyme;  
 KW human; v-rel reticuloendotheliosis viral oncogene homologue A; REL-A;  
 KW nuclear factor; ss.  
 XX  
 XX Synthetic.  
 OS Homo sapiens.  
 XX  
 XX WO2003070970-A2.

PD 28-AUG-2003.  
 XX  
 PF 20-FEB-2003; 2003WO-US004951.  
 XX  
 PR 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 03-SEP-2002; 2002US-0409293P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI McSwiggen J, Beigelman L;  
 XX  
 XX WPI; 2003-689788/55.  
 DR  
 PT New short interfering nucleic acid downregulates expression of the NF-  
 PT kappaB gene useful e.g. for treatment and diagnosis of cancer and  
 PT inflammation.  
 XX  
 XX Example 3; Page 129; 149pp; English.  
 PS  
 XX The present invention describes a short interfering nucleic acid (siNA)  
 CC that downregulates expression of a nuclear factor kappa B (NF-kappaB)  
 CC gene by RNA interference. Also described: (1) kits for in vitro or in  
 CC vivo delivery of siNA; (2) conjugates and/or complexes of siNA; and (3)  
 CC vectors that express siNA. The siNAs have vasotropic, neurotropic,  
 CC antiparkinsonian, neuroprotective, cytostatic, antiinflammatory,  
 CC anti-allergic, virucide, anti-HIV, immunosuppressive, anticonvulsant and  
 CC nephrotropic activities, and can be used in gene therapy, and for the  
 CC modulation (inhibition) of expression or activity of NF-kappaB by RNA  
 CC interference (siNA target mRNA, pre-RNA and/or RNA templates). The siNA  
 CC sequences can be used to modulate expression of NF-kappaB genes, in  
 CC cells, tissue explants or organisms, e.g. by ex vivo gene therapy, in  
 CC grafts and transplants for treating restenosis and central nervous system  
 CC lesions and injuries (Alzheimer's, Parkinson's or Huntington's diseases,  
 CC epilepsy, dementia or amyotrophic lateral sclerosis) or for treating many  
 CC cancers, other proliferative diseases (restenosis and polycystic kidney  
 CC disease), inflammatory and/or allergic diseases, viral infections  
 CC (including HIV), autoimmune diseases and transplant rejection, and also  
 CC for drug screening; diagnosis; target identification and validation;  
 CC genetic engineering; pharmacogenomics; studying gene function and gene  
 CC mapping (e.g. of single-nucleotide polymorphisms). The present sequence  
 CC represents human v-rel reticuloendotheliosis viral oncogene homologue A  
 CC (REL-A) siNA, which is used in the exemplification of the present  
 CC invention. REL-A is a nuclear factor of the kappa light polypeptide gene  
 CC enhancer in B-cells.  
 XX  
 SQ Sequence 19 BP; 1 A; 8 C; 9 G; 0 T; 1 U; 0 Other;  
 Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 OY 305 GAGCCCGGGGACC 318  
 DB 5 GAGCCCGGGGCCC 18  
 RESULT 729  
 ADD00605/c  
 ID ADD00605 standard; RNA; 19 BP.  
 XX  
 AC ADD00605;  
 XX  
 XX 01-JAN-2004 (first entry)  
 DT  
 XX HCV coding region-derived 50% conserved RNA sequence 551.  
 DE  
 XX HCV infection; replication; pathogenesis; virucide; vaccine;  
 KW

KW gene therapy; ds.  
 XX Hepatitis C virus.  
 OS WO2003016572-A1.  
 XX 27-FEB-2003.  
 PD 16-AUG-2002; 2002WO-US021843.  
 XX 17-AUG-2001; 2001US-0313076P.  
 PR 20-DEC-2001; 2001US-0344116P.  
 PR 01-FEB-2002; 2002US-0353750P.  
 XX (ELIL ) LILLY & CO ELI.  
 PA Zhao G, Lu J, Glass JI, Martinez A, Yang Y;  
 PI WPI; 2003-268345/26.  
 XX New double stranded RNA oligonucleotide, useful for preparing a  
 PT composition for treating or preventing hepatitis C virus.  
 XX Disclosure; Page 90; 173pp; English.  
 XX The invention relates to a novel isolated double stranded RNA  
 CC oligonucleotide about 19 to about 25 ribonucleotides in length or its  
 CC equivalent. One strand of the oligonucleotide comprises the same  
 CC nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA  
 CC polynucleotide sequence required for hepatitis C virus infection,  
 CC replication or pathogenesis in vitro or in vivo in a host cell. The  
 CC oligonucleotide of the invention demonstrates virucide activity and may  
 CC be useful for preparing a composition or vaccine for treating or  
 CC preventing hepatitis C virus, as well as during gene therapy procedures.  
 CC The current sequence is that of the HCV coding region-derived conserved  
 CC RNA sequence of the invention.  
 XX Sequence 19 BP; 3 A; 7 C; 2 G; 0 T; 7 U; 0 Other;  
 SQ  
 Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 6 GGAGTGAAACTGCG 19  
 DB 19 GGAGTGAAATGCG 6  
 RESULT 730  
 ADD00606/c  
 ID ADD00606 standard; RNA; 19 BP.  
 XX  
 AC ADD00606;  
 XX  
 DT 01-JAN-2004 (first entry)  
 XX HCV coding region-derived 50% conserved RNA sequence 552.  
 DE HCV infection; replication; pathogenesis; virucide; vaccine;  
 KW gene therapy; ds.  
 KW Hepatitis C virus.  
 OS WO2003016572-A1.  
 XX 27-FEB-2003.  
 PD 16-AUG-2002; 2002WO-US021843.  
 XX 17-AUG-2001; 2001US-0313076P.  
 PR 20-DEC-2001; 2001US-0344116P.  
 PR 01-FEB-2002; 2002US-0353750P.  
 XX

PA (ELIL ) LILLY & CO ELI.  
 XX Zhao G, Lu J, Glass JI, Martinez A, Yang Y;  
 PI WPI; 2003-268345/26.  
 XX New double stranded RNA oligonucleotide, useful for preparing a  
 PT composition for treating or preventing hepatitis C virus.  
 XX Disclosure; Page 90; 173pp; English.  
 XX The invention relates to a novel isolated double stranded RNA  
 CC oligonucleotide about 19 to about 25 ribonucleotides in length or its  
 CC equivalent. One strand of the oligonucleotide comprises the same  
 CC nucleotide sequence as a region of a hepatitis C virus (HCV) target RNA  
 CC polynucleotide sequence required for hepatitis C virus infection,  
 CC replication or pathogenesis in vitro or in vivo in a host cell. The  
 CC oligonucleotide of the invention demonstrates virucide activity and may  
 CC be useful for preparing a composition or vaccine for treating or  
 CC preventing hepatitis C virus, as well as during gene therapy procedures.  
 CC The current sequence is that of the HCV coding region-derived conserved  
 CC RNA sequence of the invention.  
 XX Sequence 19 BP; 4 A; 6 C; 2 G; 0 T; 7 U; 0 Other;  
 SQ  
 Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 6 GGAGTGAAACTGCG 19  
 DB 18 GGAGTGAAATGCG 5  
 RESULT 731  
 ADD69764  
 ID ADD69764 standard; DNA; 19 BP.  
 XX  
 AC ADD69764;  
 XX  
 DT 15-JAN-2004 (first entry)  
 XX Human ERR gamma 3-related PCR primer - SEQ ID 13.  
 DE nuclear receptor; ERR gamma 3; oestrogen receptor-related receptor;  
 KW oestrogen receptor; ER; thyroid hormone; TR; human; ss; PCR; primer.  
 KW Homo sapiens.  
 OS WO2003080831-A1.  
 XX 02-OCT-2003.  
 PD 25-MAR-2003; 2003WO-JP003611.  
 PF 25-MAR-2002; 2002JP-00084560.  
 PR (FUJI ) FUJISAWA PHARM CO LTD.  
 PA Kojo H, Tajima K, Fukagawa M, Nishimura S, Isogai T;  
 PI WPI; 2003-779262/73.  
 XX Polynucleotides encoding nuclear receptors, and the encoded proteins,  
 XX useful as diagnostic agents, and for identification of agents that affect  
 XX receptor activity.  
 XX Example 6; SEQ ID NO 13; 148pp; Japanese.  
 PS The invention relates to novel nuclear receptor ERR (oestrogen receptor-  
 CC related receptor) gamma 3 polynucleotides. The polynucleotides of the  
 CC invention may be useful for diagnosis of disorders caused by abnormal  
 CC nuclear receptor activity, particularly those related to abnormal

CC oestrogen receptor (ER), ER or thyroid hormone receptor (TR) activity.  
 CC Furthermore, the polynucleotides and proteins may be useful for  
 CC evaluating agents that affect the activity of nuclear receptors. The  
 CC current sequence is that of the human ER gamma 3-related PCR primer (SEQ  
 CC ID 13) of the invention.

XX Sequence 19 BP; 3 A; 7 C; 2 G; 7 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 63 TCTCTGCACTACGA 76  
 |||||  
 Db 6 TCCTGCACTACGA 19

## RESULT 732

ADEI13385  
 ID ADEI13385 standard; DNA; 19 BP.

XX AC ADEI13385;

XX DT 29-JAN-2004 (first entry)

XX DE HLA class I allele specific primer #1.

XX ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype.

XX OS Homo sapiens.

XX US2003165884-A1.

XX PD 04-SEP-2003.

XX PF 25-APR-2002; 2002US-00133779.

XX PR 20-DEC-1999; 99US-0172768P.

XX PR 20-DEC-2000; 2000US-00747391.

XX (STEM-) STEM-CYTE INC.

XX Chow R, Tonai R;

XX WPI; 2003-874916/81.

XX Identifying class I or II Human Leukocyte Antigen genotypes using  
 PT hybridization and amplification assays.

XX Claim 7; SEQ ID NO 1; 66pp; English.

XX The invention relates to a method of identifying a class I or II Human  
 CC Leukocyte Antigen (HLA) genotype of a subject using hybridisation and  
 CC amplification assay. The method is used for determining the HLA genotype  
 CC of a subject. The present sequence represents a HLA class I allele  
 CC specific primer.

XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20  
 |||||  
 Db 3 GAGTGAACCTGCGG 16

## RESULT 733

ADEI13501  
 ID ADEI13501 standard; DNA; 19 BP.

XX AC ADEI13501;

XX

XX DT 29-JAN-2004 (first entry)

XX DE HLA class I allele specific primer #117.

XX ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype.

XX OS Homo sapiens.

XX US2003165884-A1.

XX PD 04-SEP-2003.

XX PF 25-APR-2002; 2002US-00133779.

XX PR 20-DEC-1999; 99US-0172768P.

XX PR 20-DEC-2000; 2000US-00747391.

XX (STEM-) STEM-CYTE INC.

XX Chow R, Tonai R;

XX WPI; 2003-874916/81.

XX Identifying class I or II Human Leukocyte Antigen genotypes using  
 PT hybridization and amplification assays.

XX Claim 7; SEQ ID NO 119; 66pp; English.

XX The invention relates to a method of identifying a class I or II Human  
 CC Leukocyte Antigen (HLA) genotype of a subject using hybridisation and  
 CC amplification assay. The method is used for determining the HLA genotype  
 CC of a subject. The present sequence represents a HLA class I allele  
 CC specific primer.

XX Sequence 19 BP; 6 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.4; DB 1; Length 19;  
 Best Local Similarity 92.9%; Pred. No. 4.8e+02;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 GAGTGAACCTGCGG 20  
 |||||

Db 3 GAGTGAACCTGCGG 16

## RESULT 734

AAQ22903  
 ID AAQ22903 standard; DNA; 17 BP.

XX AC AAQ22903;

XX DT 25-MAR-2003 (revised)

XX DT 07-JUL-1992 (first entry)

XX HCV-Hc59 primer #795 (sense strand).

XX Hepatitis C virus; non-A non-B virus; HCV-Hc59; primers; probes; vaccine;  
 XX ss.

XX Synthetic.

XX WO9203458-A.

XX PD 05-MAR-1992.

XX PF 23-AUG-1991; 91WO-US006037.

XX PR 25-AUG-1990; 90US-00573643.

XX PR 21-NOV-1990; 90US-00616369.

XX PR 21-AUG-1991; 91US-00748564.

XX (NYBL-) NEW YORK BLOO DCENT.

PA (PHAR-) PHARMA.  
XX Zebedee S, Inchauspe G, Nasofe MS, Prince AM;  
XX WPI; 1992-096821/12.  
XX Deoxyribonucleic acid sequence encoding non-A, non-B hepatitis virus -  
PT obtd. Huch C59 subgroup encoding polypeptide(s), useful as vaccines, and  
PT immuno reactive ABS for diagnosis of virus.  
XX Disclosure; Page 107; 225pp; English.  
XX One Huch strain (HCV-H) of NANBV, designated the Huch c59 isolate (HCV-  
CC Hc59) was propagated through passage in animals and the entire viral  
CC genome was cloned and sequenced. Five microg of purified liver or plasma  
CC derived from HCV RNA was used per cDNA priming reaction. Specific  
CC nucleotide primers derived from published HCV sequences and spanning the  
CC entire reported genomic sequences were used to prime the reaction.  
CC Selected target sequences were amplified using a PCR-based approach using  
CC a variety of nucleotide primers. The nucleotide sequences of the primers  
CC are given in AAQ22872-936 and AAQ24472. Amplified sequences were  
CC subsequently isolated, rendered blunt-ended and inserted into a pUC or  
CC pBluescript cloning vectors. (Updated on 25-MAR-2003 to correct PR  
CC field.) (Updated on 25-MAR-2003 to correct PA field.)  
XX Sequence 17 BP; 1 A; 6 C; 6 G; 4 T; 0 U; 0 Other;  
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 250 CGGGCTCGCCGCGTG 266  
Db 1 CGGGCTCGGTCACGTGT 17  
RESULT 735  
AAQ2383/C  
ID AAQ2383 standard; DNA; 17 BP.  
XX AAQ2383;  
XX 15-JAN-1996 (first entry)  
XX Human mismatch repair pathway gene MSH2, primer 17209.  
XX Mismatch repair; MSH2; primer; identification; defect; alteration;  
KW cancer; tumour; vaccine; ss.  
XX Homo sapiens.  
OS WO9514085-A2.  
XX 26-MAY-1995.  
XX 17-NOV-1994; 94WO-US013385.  
XX 17-NOV-1993; 93US-00154792.  
PR 07-DEC-1993; 93US-00163449.  
PR 13-JUN-1994; 94US-00253310.  
XX (DAND ) DANA FARMER CANCER INST.  
PA (UYVE-) UNIV VERMONT & STATE AGRIC COLLEGS.  
XX Kolodner RD, Fishel R, Reenan RA;  
XX WPI; 1995-200377/26.  
XX Determining alteration in human mismatch repair pathways - used in the  
PT diagnosis, prognosis and therapy of cancers and in screening assays.  
PT Claim 15; Page 186; 256pp; English.  
PS

CC AAQ2382-Q92400 and AAQ93890-Q93900 are oligonucleotide primers used to  
CC detect alterations in the human mismatch repair pathway gene MSH2.  
CC Defects or alterations in such a gene result in the accumulation of  
CC unstable repeated DNA sequences, a feature of a number of different  
CC cancers. The identification of a defect in the mismatch repair pathway  
CC can be diagnostic of a predisposition to cancer and prognostic for a  
CC particular mammalian cancer e.g colorectal, ovarian, endometrial  
CC (uterine), renal, bladder, skin, rectal and bowel. The nucleotide  
CC sequences and polypeptides of the hMSH2 gene may also be used for therapy  
CC and in vaccines  
XX Sequence 17 BP; 2 A; 10 C; 3 G; 2 T; 0 U; 0 Other;  
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 319 GCGTCTCGCGCGGAC 335  
Db 17 GCGTCTCGGAGGAGGAC 1  
RESULT 736  
AAQ74482  
ID AAQ74482 standard; RNA; 17 BP.  
XX AAQ74482;  
XX 28-JUL-1999 (first entry)  
XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #10.  
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW XDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.  
XX Mus sp.  
OS WO9715662-A2.  
XX 01-MAY-1997.  
XX 25-OCT-1996; 96WO-US017480.  
XX 26-OCT-1995; 95US-0005974P.  
PR 11-JAN-1996; 96US-00584040.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 155; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAQ67275 to AAQ75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX



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SQ Sequence 17 BP; 0 A; 5 C; 5 G; 0 T; 7 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 58.8%; Pred. No. 4.2e+02;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 234 TCGGGAGGCTGTCTCC 250
Db 1 UCGGGUGUGGCUUC 17

RESULT 737
AAAT76486/C
ID AAT76486 standard; DNA; 17 BP.
XX
AC AAT76486;
XX
DT 16-SEP-1997 (first entry)
XX
DE Endothelial nitric oxide antisense oligonucleotide.
XX
KW Asthma; airway epithelium; adenosine free; cystic fibrosis;
KW chronic obstructive pulmonary disease; bronchitis; ss.
XX
OS Synthetic.
XX
XX WO9640162-A1.
XX
PD 19-DEC-1996.
XX
PF 06-JUN-1996; 96WO-US009306.
XX
PR 07-JUN-1995; 95US-00474497.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI Nyce JW, Metzger WJ;
XX
DR WPI; 1997-051871/05.
XX
PT Treatment of airway diseases such as asthma - by topically applying
PT adenosine-free antisense oligo:nucleotide to airway epithelium of
PT subject.
XX
PS Example 5; Page 42; 71pp; English.
XX
CC A method for treating airway disease in a subject has been produced,
CC which involves the topical administration of an essentially adenosine
CC free antisense oligonucleotide (ON) to the airway epithelium of the
CC subject. The present sequence is an antisense oligonucleotide specific
CC for endothelial nitric oxide. The method can be used to treat airway
CC diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary
CC disease, bronchitis and other airway diseases characterised by an
CC inflammatory response. By eliminating adenosine from the antisense ON,
CC its liberation upon antisense degradation is prevented, thereby
CC preventing adenosine-induced bronchoconstriction in patients with hyper-
CC reactive airways
XX
SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 52.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 268 ACCTGGAGCAGGGCGGC 284
Db 17 ACCGGCAGCAGGACGGC 1

RESULT 739
AAV97774/C
ID AAV97774 standard; RNA; 17 BP.
XX
AC AAV97773;
XX
DT 17-MAR-1999 (first entry)
XX
DE Human EGF-R target sequence nucleotide position 4356.
XX
KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
KW cancer; genetic drift; detection; mutation; ss.
XX
OS Homo sapiens.
XX
```

```
AC AAV97774;
XX
DT 17-MAR-1999 (first entry)
XX
DE Human EGF-R target sequence nucleotide position 4357.
XX
KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
KW cancer; genetic drift; detection; mutation; ss.
XX
OS Homo sapiens.
XX
XX WO9833893-A2.
XX
PD 06-AUG-1998.
XX
PF 14-JAN-1998; 98WO-US000730.
XX
PR 31-JAN-1997; 97US-0036476P.
XX
PR 04-DEC-1997; 97US-00985162.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (UYAS-) UNIV ASTON.
XX
PI Akhtar S, Fell P, Meswiggen JA;
XX
XX WPI; 1998-437449/37.
XX
DR Enzymatic nucleic acids - which cleave RNA derived from an epidermal
PT growth factor receptor, useful for inhibiting cell proliferation and for
PT treating cancers.
XX
PS Claim 5; Page 79; 109pp; English.
XX
CC The present invention describes enzymatic nucleic acid molecules (NAMs)
CC which specifically cleave RNA derived from an epidermal growth factor
CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090
CC represent specifically claimed target sequence from human EGF-R. AAV98044
CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and
CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for
CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR
CC expression levels e.g. to inhibit cell proliferation in the prevention or
CC treatment of cancers. The NAMs can also be used as diagnostic tools to
CC examine genetic drift and mutations within diseased cells or to detect
CC the presence of EGF-R RNA in a cell
XX
SQ Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 390 GCGGCCAAGAGGCTT 406
Db 17 GGGGCCATGAAGGCTT 1

RESULT 739
AAV97773/C
ID AAV97773 standard; RNA; 17 BP.
XX
AC AAV97773;
XX
DT 17-MAR-1999 (first entry)
XX
DE Human EGF-R target sequence nucleotide position 4356.
XX
KW Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;
KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;
KW cancer; genetic drift; detection; mutation; ss.
XX
OS Homo sapiens.
XX
```

PN WO9833893-A2.  
XX  
PD 06-AUG-1998.  
XX  
PF 14-JAN-1998; 98WO-US000730.  
XX  
PR 31-JAN-1997; 97US-0036476P.  
PR 04-DEC-1997; 97US-00985162.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (UYAS-) UNIV ASTON.  
XX  
PI Akhtar S, Fell P, Mcswiggen JA;  
XX  
DR WPI, 1998-437449/37.  
XX  
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
PT growth factor receptor, useful for inhibiting cell proliferation and for  
PT treating cancers.  
XX  
PS Claim 5; Page 79; 109pp; English.  
XX  
CC The present invention describes enzymatic nucleic acid molecules (NAME)  
CC which specifically cleave RNA derived from an epidermal growth factor  
CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
CC represent specifically claimed target sequence from human EGF-R. AAV98044  
CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and  
CC hairpin ribozymes respectively for human EGF-R. The NMs are useful for  
CC cleaving EGF-R RNA in the treatment of a condition associated with EGF-R  
CC expression levels e.g. to inhibit cell proliferation in the prevention or  
CC treatment of cancers. The NMs can also be used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of EGF-R RNA in a cell  
XX  
SQ Sequence 17 BP; 3 A; 6 C; 5 G; 0 T; 3 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 391 GCGCCATGAGGCTTC 407  
DB 17 GCGCCATGAGGCTTC 1  
RESULT 740  
AAV48482/C  
ID AAV48482 standard; DNA; 17 BP.  
XX  
AC AAV48482;  
XX  
DT 15-OCT-1998 (first entry)  
XX  
DE TGF-beta-1 antisense oligonucleotide TGF-beta1-31.  
XX  
KW Transforming growth factor beta-1; TGF beta-1; antisense oligonucleotide;  
KW modulate; gene expression; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN EP856579-A1.  
XX  
PD 05-AUG-1998.  
XX  
PF 31-JAN-1997; 97EP-00101531.  
XX  
PR 31-JAN-1997; 97EP-00101531.  
XX  
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.  
XX  
PI Schlingensiepen K, Brysch W;  
XX

DR WPI; 1998-400910/35.  
XX  
XX Preparation of antisense oligonucleotide(s) which lack long runs of  
PT consecutive guanosine or inosine - and have specific ratio of residues  
PT able to form two or three hydrogen bonds, have greater activity and  
PT reduced toxicity, used therapeutically or to modulate growth of cells in  
PT culture.  
XX  
PS Claim 10; Fig 3b; 286pp; English.  
XX  
XX AAV48412-84 represent antisense oligonucleotides directed against  
CC transforming growth factor beta-1 (TGF beta-1). The oligonucleotides  
CC exemplify the invention. The specification describes oligonucleotides  
CC that contain 8-30 nucleotides, which contain at most 8 nucleotides that  
CC can each form three hydrogen bonds to cytosine; do not contain four  
CC consecutive nucleotides able to form three H-bonds each to four  
CC consecutive cytosines; do not contain two sequences of three consecutive  
CC nucleotides each able to form three H-bonds to three consecutive  
CC cytosines, and the ratio between residues able to form two H-bonds each  
CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The  
CC oligonucleotides are used to modulate expression of genes, particularly  
CC the genes for p53, ErbB-2, junB, jund, TGF-beta 1 or beta 2 to control  
CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or  
CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The  
CC oligonucleotides can also be used to analyse function of proteins (by  
CC altering their expression or activity) and therapeutically, e.g. in cases  
CC of cancer or (targeting TGF) for stimulating the immune system  
XX  
SQ Sequence 17 BP; 6 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 350 GCTCTACAGCGACTTC 366  
DB 17 GCTCTACAGCGACTTC 1  
RESULT 741  
AAX06941  
ID AAX06941 standard; DNA; 17 BP.  
XX  
AC AAX06941;  
XX  
DT 10-MAY-1999 (first entry)  
XX  
DE Canine factor VIII gene fragment PCR primer CS-nt-UTR-U.  
XX  
KW Factor VIII; canine; dog; diagnosis; animal model; haemophilia A;  
KW gene therapy; PCR; primer; ss.  
XX  
OS Synthetic.  
OS Canis familiaris.  
XX  
PN CA2225189-A.  
XX  
PD 06-SEP-1998.  
XX  
PF 06-MAR-1998; 98CA-02225189.  
XX  
PR 06-MAR-1997; 97US-0039953P.  
PR 05-MAR-1998; 98US-00035141.  
XX  
PA (TOOH) UNIV QUEENS KINGSTON.  
XX  
PI Lillicrap D, Cameron C, Notley C, Horrocks L, Hough C;  
XX  
DR WPI; 1999-071205/07.  
XX  
XX New canine factor VIII polynucleotide and polypeptide - useful for  
PT detection and treatment of haemophilia A using gene therapy.  
PT  
XX

PS Example 2; Page 57; 153pp; English.

XX This is the nucleotide sequence of canine factor VIII gene fragment 6A-3

CC first round PCR primer CS-nt-VTR-U, where CS indicates canine-specific,

CC and U refers to the amplification region being upstream of the primer.

CC The canine factor VIII gene nucleotide sequence (see AAV99801) was

CC obtained by concatenation of RT-PCR-amplified factor VIII fragments

CC obtained from canine liver total RNA (see AAX06886-918), and the sequence

CC was confirmed by RT-PCR (see AAX06919-41). The invention also provides

CC canine factor VIII polypeptides (see AAW80989) and methods for the

CC detection and treatment of canine disorders characterised by factor VIII

CC deficiency, especially haemophilia A

XX

SQ Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAATCGTGGCGGCC 230

DB 1 AGACCTCGTGTGCGCC 17

XX

AC AAV91040;

XX

DT 18-FEB-1999 (first entry)

XX

DE Human C-raf target site nucleotide position 747.

XX

XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;

KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;

KW screening; identification; synthesis; deprotection; purification; cancer;

KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;

KW restenosis; rheumatoid arthritis; ss.

XX

OS Homo sapiens.

XX

PN WO9850530-A2.

XX

PD 12-NOV-1998.

XX

PF 05-MAY-1998; 98WO-US009249.

XX

PR 09-MAY-1997; 97US-0046059P.

PR 09-JUN-1997; 97US-0049002P.

PR 03-JUL-1997; 97US-0051718P.

PR 22-AUG-1997; 97US-0056808P.

PR 02-OCT-1997; 97US-0061321P.

PR 02-OCT-1997; 97US-0061324P.

PR 05-NOV-1997; 97US-0064866P.

PR 19-DEC-1997; 97US-0068212P.

XX

XX (RIBO-) RIBOZYME PHARM INC.

XX

XX Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;

PI Parry T, Beigelman L, Mcswiggen JA, Karpelsky A, Burgin A;

PI Thompson J, Workman CT, Beaudry A, Sweedler D;

XX

XX WPI; 1999-009494/01.

XX

XX Identifying new catalytic nucleic acid that modulates selected processes

PT - especially ribozymes that cleave Raf RNA for treating cancer,

PT restenosis, and also new ribozymes and modified nucleoside triphosphates

PT used as antiviral agents and synthons.

XX

PS Claim 177; Page 148; 259pp; English.

XX

XX A method has been developed for the identification of a nucleic acid

CC

CC capable of modulating a process in a biological system. The method

CC comprises: (a) introducing into the system a random library of nucleic

CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising

CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC

CC in systems where modulation has occurred and/or determining the sequence

CC of at least part of the SBDs in such systems. Nucleic acid molecules with

CC endonuclease activity and catalytic activity, from the present invention, are

CC used to modulate gene expression in plant and mammalian cells and to

CC cleave target nucleic acid, particularly for treating systemic diseases

CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic

CC ascites and infection. They may also be used to detect genetic drift and

CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs

CC with RNA-cleaving activity that modulate expression of the Raf gene, are

CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or

CC generally any condition associated with the level of c-raf. Introduction

CC of sugar/phosphate modifications increases stability against nuclease and

CC activity. AAV90922 to AAV93877 represent NACs that can be used in the

CC method, specifically for modulating the expression of a Raf gene

XX

SQ Sequence 17 BP; 4 A; 5 C; 5 G; 0 T; 3 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 70.8%; Pred. No. 4.2e+02;

Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCTGCACT 72

DB 1 AGUGGAGUCCAGCACU 17

XX

AC AAV92615;

XX

DT 18-FEB-1999 (first entry)

XX

DE Human A-Raf substrate position 2094.

XX

XX Human; C-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;

KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;

KW screening; identification; synthesis; deprotection; purification; cancer;

KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;

KW restenosis; rheumatoid arthritis; ss.

XX

OS Homo sapiens.

XX

PN WO9850530-A2.

XX

PD 12-NOV-1998.

XX

PF 05-MAY-1998; 98WO-US009249.

XX

PR 09-MAY-1997; 97US-0046059P.

PR 09-JUN-1997; 97US-0049002P.

PR 03-JUL-1997; 97US-0051718P.

PR 22-AUG-1997; 97US-0056808P.

PR 02-OCT-1997; 97US-0061321P.

PR 02-OCT-1997; 97US-0061324P.

PR 05-NOV-1997; 97US-0064866P.

PR 19-DEC-1997; 97US-0068212P.

XX

XX (RIBO-) RIBOZYME PHARM INC.

XX

XX Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;

PI Parry T, Beigelman L, Mcswiggen JA, Karpelsky A, Burgin A;

PI Thompson J, Workman CT, Beaudry A, Sweedler D;

XX

XX WPI; 1999-009494/01.

XX

XX Identifying new catalytic nucleic acid that modulates selected processes

PT - especially ribozymes that cleave Raf RNA for treating cancer,

PT restenosis, and also new ribozymes and modified nucleoside triphosphates

PT used as antiviral agents and synthons.

XX

PS Claim 177; Page 148; 259pp; English.

XX

XX A method has been developed for the identification of a nucleic acid

CC

PT reestrosis, and also new ribozymes and modified nucleoside triphosphates  
PT used as antiviral agents and synthons.

PS Claim 177; Page 161; 259pp; English.

XX A method has been developed for the identification of a nucleic acid  
CC capable of modulating a process in a biological system. The method  
CC comprises: (a) introducing into the system a random library of nucleic  
CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising  
CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC  
CC in systems where modulation has occurred and/or determining the sequence  
CC of at least part of the SBDs in such systems. Nucleic acid molecules with  
CC endonuclease activity and catalytic activity, from the present invention,  
CC are used to modulate gene expression in plant and mammalian cells and to  
CC cleave target nucleic acid, particularly for treating systemic diseases  
CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic  
CC ascites and infection. They may also be used to detect genetic drift and  
CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs  
CC with RNA-cleaving activity that modulate expression of the Raf gene, are  
CC used to treat cancer, reestenosis, psoriasis or rheumatoid arthritis, or  
CC generally any condition associated with the level of c-raf. Introduction  
CC of sugar/phosphate modifications increases stability against nuclease and  
CC activity. AA930922 to AA93877 represent NACs that can be used in the  
CC method, specifically for modulating the expression of a Raf gene

XX SQ Sequence 17 BP; 1 A; 6 C; 3 G; 0 T; 7 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 28 AGGGCTGGGACGAAGAT 44  
DB 17 AGGGCAGACGACGAACAT 1

RESULT 744  
AA54277/C  
ID AAX54277 standard; DNA; 17 BP.

AC AAX54277;

DT 05-JUL-1999 (first entry)

DE Endothelial nitric oxide synthase antisense oligonucleotide.

XX Antisense oligonucleotide; multiple target; antisense treatment;  
KW impaired respiration; inflammation; lung disease;  
KW pulmonary vasoconstriction; inflammation; allergic rhinitis;  
KW acute asthma; allergy; asthma; impeded respiration;  
KW respiratory distress syndrome; pain; cystic fibrosis;  
KW pulmonary hypertension; pulmonary vasoconstriction; emphysema;  
KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;  
KW colon cancer; breast cancer; lung cancer; pancreatic cancer;  
KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;  
KW prostate cancer; ss.

XX Synthetic.

OS WO9913886-A1.

XX 25-MAR-1999.

PF 17-SEP-1998; 98WO-US019419.

XX 17-SEP-1997; 97US-0059160P.

PR 09-JUN-1998; 98US-00093972.

XX (UYEC-) UNIV EAST CAROLINA.

XX Nyce JW;

XX WPI; 1999-229400/19.

XX New antisense oligonucleotides used in treatment of, e.g. pulmonary  
PT vasoconstriction.

PS Disclosure; Page 61; 120pp; English.

XX The specification describes antisense oligonucleotides (AAX52869-X55271)  
CC directed against at least 2 mRNAs selected from target genes, coding and  
CC non-coding regions of RNAs corresponding to target genes, gene initiation  
CC codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-  
CC end and the juxta-section between coding and non-coding regions and all  
CC segments of RNAs encoding proteins associated with one or more diseases,  
CC conditions or mixtures. The antisense oligonucleotides may be derived  
CC from sequences AAX55272-74. These multiple target oligonucleotides  
CC (specifically AAX55180-271) can be used for the antisense treatment of  
CC diseases and conditions. Typical diseases and conditions are those  
CC associated with impaired respiration and inflammation, including lung  
CC diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis,  
CC acute asthma, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, chronic obstructive pulmonary  
CC disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.  
CC colon cancer, breast cancer, lung cancer, pancreatic cancer,  
CC hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as  
CC well as all types of cancers which may metastasize or have metastasized  
CC to the lungs, including breast and prostate cancer

XX SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 268 ACCTGGAGCAGGCGGC 284  
DB 17 ACCGGCAGCAGGACGCGC 1

RESULT 745

AA29695/C  
ID AAX29695 standard; DNA; 17 BP.

AC AAX29695;

DT 04-JUN-1999 (first entry)

XX Human bone morphogenic protein (BMP)-2 forward primer.

XX BMP; BMP-2; bone morphogenetic protein; tissue regeneration; skin; bone;  
KW cartilage; tendon; ligament; muscle; connective tissue; nerve; cardiac;  
KW liver; lung; kidney; pancreas; brain; embryonic development;  
KW growth factor; osteoporosis; osteoarthritis; fracture; PCR primer; ss.

XX Homo sapiens.

XX WO9911664-A1.

XX 11-MAR-1999.

PF 04-SEP-1998; 98WO-US018603.

XX 05-SEP-1997; 97US-0057989P.

PR 04-SEP-1998; 98US-00148234.

XX (GEMV) GENETICS INST INC.

XX (YISS) YISSUM RES & DEV CO.

PI Moutsatsos I, Gazit D, Zilberman Y, Turgeman G;

XX WPI; 1999-214697/18.

XX Production of cells for implantation at the site of bone infirmity in a  
PT human, using DNA encoding a bone morphogenetic protein - useful for

```

PT treating osteoporosis, osteoarthritis and non-union fractures.
XX
PS Example 14; Page 43; 71pp; English.
XX
CC The invention relates to the production of oils for implantation at the
CC site of a bone infirmity in a human, that comprises transforming and
CC culturing a host containing DNA encoding a bone morphogenetic protein
CC (BMP). The method is useful for regenerating various tissues, including
CC bone, cartilage, tendon, ligament, muscle, skin (and other connective
CC tissues), nerve, cardiac, liver, lung, kidney, pancreas, and brain. The
CC method is also useful for inducing and/or regeneration of tissue,
CC including the induction of epidermal, endodermal and mesodermal tissue
CC during embryonic development. The growth factors produced by the method
CC are useful for treating osteoporosis and osteoarthritis, non-union
CC fractures. The method provides cells, which are potentially responsive to
CC BMPs that can be used for growth factor delivery to signalling receptors
CC of transplanted cells (autocrine effect) and host progenitor stem cells
CC (paracrine effect) for the engraftment, differentiation, and stimulation
CC of new bone growth. Therefore, the method provides an effective therapy
CC for non-union fractures. Sequences AAX29695-696 represent primers for BMP
CC -2
XX
SQ Sequence 17 BP; 3 A; 9 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 23 GACCGAGGCTGGGACG 39
DB 17 GTGAGAGGCTGGGATG 1
RESULT 746
AAA33721/c
ID AAA33721 standard; DNA; 17 BP.
XX
AC AAA33721;
XX
XX 28-JUL-2000 (first entry)
XX
DE Low adenosine antisense oligonucleotide SEQ ID NO:1410.
XX
XX Human; adenosine receptor; low adenosine antisense oligonucleotide;
XX phosphothioate; impaired respiration; inflammation; allergy;
XX allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
XX antiallergic; antiasthmatic; cycostatic; analgesic; impaired airway;
XX lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
XX respiratory distress syndrome; pain; cystic fibrosis; emphysema;
XX pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
XX cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
XX
XX WO200009525-A2.
XX
XX 24-FEB-2000.
XX
XX 03-AUG-1999; 99WO-US017712.
XX
XX 03-AUG-1998; 98US-0095212P.
XX
XX (UYEC-) UNIV EAST CAROLINA.
XX
XX Nyce JW;
XX
XX WPI; 2000-205971/18.
XX
XX New antisense oligonucleotides useful for treating e.g. pulmonary
XX vasoconstriction, inflammation, allergies, asthma, hypertension,
XX bronchitis, emphysema, respiratory distress syndrome, ischemia or
XX cancers.
XX

```

```

PS Claim 18; Page 441; 1343pp; English.
XX
CC The present invention describes a new composition comprising an antisense
CC oligonucleotide (ON) with low adenosine (up to 15%), which targets
CC nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antiasthmatic, cycostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,
CC impaired respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
CC pulmonary disease (COPD), and cancers such as leukemias, lymphomas,
CC carcinomas, and cancers which may metastasize to the lungs, including
CC breast and prostate cancer. The reduction of the adenosine content of the
CC ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185
CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ
CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to
CC AAA33992) are specifically claimed ONs from the present invention. N.B.
CC Sequences given in the disclosure of the present invention do not match
CC up with their corresponding SEQ ID NO: sequences given in the sequence
CC listing
XX
SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 268 ACCTGGAGCAGCGCGC 284
DB 17 ACCGGCAGCAGCGCGC 1
RESULT 747
AAA91985
ID AAA91985 standard; DNA; 17 BP.
XX
AC AAA91985;
XX
XX 10-JAN-2001 (first entry)
XX
DE Nested PCR primer 1184F for S. neuropa small ribosomal subunit gene.
XX
XX Small ribosomal subunit; SRSU; Equine protozoal myeloencephalitis; EPM;
XX diagnosis; nested PCR primer; ss.
XX
XX Sarcocystis neuropa.
XX
XX US6110665-A.
XX
XX 29-AUG-2000.
XX
XX 14-FEB-1995; 95US-00388029.
XX
XX 14-FEB-1995; 95US-00388029.
XX
XX (KENT) UNIV KENTUCKY RES FOUND.
XX
XX Fenger CK, Gajadhar AA, Dubey JP, Granstrom DE;
XX
XX WPI; 2000-586347/55.
XX
XX Sarcocystis neuropa diagnostic primer, useful for in vitro diagnostic
XX testing for Equine protozoal myeloencephalitis, i.e. for diagnosing the
XX presence of S. neuropa in equine blood or cerebrospinal fluid.
XX
XX Example 3; Col 7; 41pp; English.
XX

```

```

XX The present invention relates to a diagnostic primer from positions 1470-
CC 1487 of the small ribosomal subunit of Sarcocystis neuropa. This primer
CC is unique to the S. neuropa species. The primer is useful for diagnostic
CC tests for Equine protozoal myeloencephalitis (EPM) where the presence of
CC S. neuropa is indicative of EPM. The present sequence is a nested PCR
CC primer used in the diagnostic assay to identify S. neuropa
XX
SQ Sequence 17 BP; 2 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
  Query Match      2.9%; Score 12.2; DB 1; Length 17;
  Best Local Similarity 82.4%; Pred. No. 4.2e+02;
  Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
  Oy 3 CCAGAGTGAACATGCG 19
     ||||| ||||| |||||
  Db 1 CCAGCGTGGAGCTGCG 17
     ||||| ||||| |||||

RESULT 748
RAZ56635
ID AA256635 standard; DNA; 17 BP.
XX
AC AA256635;
XX
XX
DT 21-MAR-2000 (first entry)
XX
DE Canine Factor VIII isolation and cloning PCR primer SEQ ID NO:61.
XX
XX Canine; factor VIII; haemostatic; diagnosis; haemophilia A; dog;
KW PCR primer; ss.
XX
OS Canis sp.
XX
XX CA2264431-A1.
XX
XX 05-SBP-1999.
XX
PF 05-MAR-1999; 98CA-02264431.
XX
PR 05-MAR-1998; 98US-00035141.
XX
PR 06-MAR-1998; 98CA-02225199.
XX
XX (TOOH ) UNIV QUEENS KINGSTON.
XX
XX Horrocks LSH, Hough C, Nottley C, Lillicrap D, Cameron C;
PI WPI; 2000-073270/07.
XX
DR Isolated nucleic acid encoding a canine factor VIII polypeptide for
PT treating a disorder characterized by canine factor VIII deficiency, such
PT as hemophilia A.
XX
PS Example 2; Page 58; 152pp; English.
XX
XX The present invention describes canine factor VIII. The isolated factor
CC VIII nucleic acid molecule and protein can be used for treating a
CC disorder characterised by canine factor VIII deficiency in a canine,
CC especially haemophilia A. AA256579 to AA256635 represent primers used in
CC the isolation and cloning of canine factor VIII
XX
SQ Sequence 17 BP; 2 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
  Query Match      2.9%; Score 12.2; DB 1; Length 17;
  Best Local Similarity 82.4%; Pred. No. 4.2e+02;
  Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
  Oy 214 AGAAGCTGGTGGCGGCC 230
     ||||| ||||| |||||
  Db 1 AGACCTCGTGTGCGGCC 17
     ||||| ||||| |||||

```

RESULT 749

```

AAF19843/c
ID AAF19843 standard; DNA; 17 BP.
XX
AC AAF19843;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human endothelial nitric oxide synthase polynucleotide fragment #1410.
XX
XX Low adenosine antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytosol;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
OS Homo sapiens.
XX
XX WO200062736-A2.
XX
XX 26-OCT-2000.
XX
XX 24-MAR-2000; 2000WO-US008020.
XX
XX 06-APR-1999; 99US-0127959P.
XX
XX (UYEC-) UNIV EAST CAROLINA.
XX
XX (NYCE/) NYCE J W.
XX
XX Nyce JW;
XX
XX WPI; 2000-679539/66.
XX
XX Low adenosine (A) content antisense oligonucleotides which do not trigger
PT adenosine receptors during metabolism, useful e.g. for treating cancers
PT and respiratory obstructions.
XX
XX Claim 14; Page 251; 1592pp; English.
XX
XX The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'Universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and/or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or
CC surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention
XX

```

XX DE Hammerhead ribozyme substrate #879.  
XX XX Query Match 2.9%; Score 12.2; DB 1; Length 17;  
XX XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
KW KW Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX OS Homo sapiens.  
XX XX WO200061729-A2.  
XX PN 19-OCT-2000.  
XX PD 11-APR-2000; 2000WO-US009721.  
XX PF 12-APR-1999; 99US-0129390P.  
XX PR (RIBO-) RIBOZYME PHARM INC.  
XX PA Blatt L, Zwick M, Pavco P, Mcswiggen J;  
XX PI WPI; 2000-647423/62.  
XX DR Enzymatic and antisense nucleic acid inhibition of repressor genes,  
XX PT useful for producing e.g. granulocyte colony stimulating factor protein,  
XX PT interferon alpha and erythropoietin.  
XX OS Homo sapiens.  
XX PS Claim 37; Page 76; 164pp; English.  
XX XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
CC factor gene, IRF-2 and/or the C/EBP Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha  
XX SQ Sequence 17 BP; 0 A; 7 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0  
QY 240 GCGTCTTCCCGGCTC 256  
DB 1 GCCGCTTCGGGCTC 17  
RESULT 752  
AAFO7245  
ID AAFO7245 standard; DNA; 17 BP.  
XX AC AAFO7245;  
XX XX 16-FEB-2001 (first entry)  
XX DE Hammerhead ribozyme substrate #3502.  
XX KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
XX KW interferon alpha; ss.  
XX OS Homo sapiens.  
XX PN WO200061729-A2.  
XX PD 19-OCT-2000.  
XX PF 11-APR-2000; 2000WO-US009721.  
XX XX 12-APR-1999; 99US-0129390P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
XX DR Enzymatic and antisense nucleic acid inhibition of repressor genes,  
XX PT useful for producing e.g. granulocyte colony stimulating factor protein,  
XX PT interferon alpha and erythropoietin.  
XX OS Homo sapiens.  
XX PS Claim 37; Page 76; 164pp; English.  
XX XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
CC factor gene, IRF-2 and/or the C/EBP Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha  
XX SQ Sequence 17 BP; 0 A; 7 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0  
QY 67 TGCCTACGAGGCGGC 83  
DB 17 TGCTGCGGAGGCGGC 1  
RESULT 751  
AAFO2584  
ID AAFO2584 standard; DNA; 17 BP.  
XX AC AAFO2584;  
XX XX 16-FEB-2001 (first entry)

PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
XX WPI; 2000-647423/62.  
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
PT useful for producing e.g. granulocyte colony stimulating factor protein,  
PT interferon alpha and erythropoietin.  
XX  
XX Claim 54; Page 136; 164pp; English.  
XX  
XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha  
XX  
SQ Sequence 17 BP; 2 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 167 GGTGTACTACGAGTCCA 183  
DB 1 GGTGTCTACCGTCCA 17  
RESULT 753  
AAFO5334  
ID AAF05334 standard; DNA; 17 BP.  
XX  
XX AAF05334;  
XX  
XX 16-FEB-2001 (first entry)  
XX  
XX Hammerhead ribozyme substrate #2553.  
XX  
XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
KW interferon alpha; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200061729-A2.  
XX  
XX 19-OCT-2000.  
PD  
XX  
XX 11-APR-2000; 2000WO-US009721.  
XX  
XX 12-APR-1999; 99US-0129390P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;  
XX  
XX WPI; 2000-647423/62.  
XX  
XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
PT useful for producing e.g. granulocyte colony stimulating factor protein,  
PT interferon alpha and erythropoietin.  
XX  
XX Claim 18; Page 114; 164pp; English.  
XX  
XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription  
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha

XX  
SQ Sequence 17 BP; 1 A; 7 C; 4 G; 5 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 348 CTGCTCTACGCGACTT 364  
DB 1 CTGCTCTTCAGCGCGT 17  
RESULT 754  
ABK01641/C  
ID ABK01641 standard; RNA; 17 BP.  
XX  
XX ABK01641;  
XX  
XX 12-MAR-2002 (first entry)  
XX  
XX Human NOGO G-Cleaver #97.  
XX  
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
KW musclar; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
KW DNazyme; inozyme; G-cleaver; amberyze; zinzyme; lymphoma; leukaemia;  
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
KW inflammatory arthropathy; central nervous system injury;  
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
KW Parkinson's disease; ataxia; Huntington's disease;  
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
XX  
XX WO200159103-A2.  
XX  
XX 16-AUG-2001.  
XX  
XX 09-FEB-2001; 2001WO-US004273.  
XX  
XX 11-FEB-2000; 2000US-0181797P.  
PR  
XX 28-FEB-2000; 2000US-0185516P.  
PR  
XX 06-MAR-2000; 2000US-0187128P.  
PR  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX (BLAT/) BLATT L.  
PA  
XX (MCSW/) MCSWIGGEN J.  
PA  
XX (CHOW/) CHOWRIRA B M.  
XX  
PI Blatt L, Mcswiggen J, Chowrira BM;  
XX  
XX WPI; 2001-607195/69.  
XX  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
PT constructs, which down regulate expression of a CD20 gene or neurite  
PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
PT central nervous system injury.  
XX  
XX Claim 88; Page 93; 200pp; English.  
XX  
XX The invention relates to a nucleic acid molecule which down regulates  
CC expression of a CD20 gene and a nucleic acid molecule which down  
CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
CC an amberyze (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.



CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a G-cleaver molecule of the invention  
 CC  
 CC Sequence 17 BP; 5 A; 2 C; 7 G; 0 T; 3 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 360 GACTTCCTCAGTTCCT 376

DB 17 GACTTCCTCAGTTCCT 1

RESULT 755

ABK02370

ID ABK02370 standard; RNA; 17 BP.

AC ABK02370;

DT 12-MAR-2002 (first entry)

DE Human NOGO Amberzyme #42.

KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.

OS Homo sapiens.

OS Synthetic.

XX WO200159103-A2.

XX 16-AUG-2001.

XX 09-FEB-2001; 2001WO-US004273.

XX 11-FEB-2000; 2000US-0181797P.

PR 28-FEB-2000; 2000US-0185516P.

PR 06-MAR-2000; 2000US-0187128P.

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MCSW/) MCSWIGGEN J.

PA (CHOW/) CHOWRIRA B M.

PI Blatt L, Mcswiggen J, Chowrira BM;

XX WPI; 2001-607195/69.

XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.

PS Claim 88; Page 131; 200pp; English.

XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an amberzyme molecule of the invention

XX Sequence 17 BP; 7 A; 2 C; 8 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 27 GAGGGCTGGGACGAGA 43

DB 1 GAGGACGAGGACGAGA 17

RESULT 756

ABA81116

ID ABA81116 standard; DNA; 17 BP.

XX ABA81116;

DT 24-JAN-2002 (first entry)

XX UGT1 mutation correcting oligonucleotide SEQ ID NO: 3962.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;

KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cyrostatic; antisickling; antianaemic; haemostatic;  
 KW antilipemic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200173002-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-US009761.  
 XX  
 PR 27-MAR-2000; 2000US-0192176P.  
 XX  
 PR 27-MAR-2000; 2000US-0192179P.  
 XX  
 PR 01-JUN-2000; 2000US-0208538P.  
 XX  
 PR 30-OCT-2000; 2000US-0244989P.  
 XX  
 PA (UYDE ) UNIV DELAWARE.  
 XX  
 PI Kmiec EB, Gamper HB, Rice MC;  
 XX  
 DR WPI; 2001-639230/73.  
 XX  
 PT Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.  
 XX  
 PS Claim 7; Page 258; 294pp; English.  
 XX  
 CC The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention  
 XX  
 SQ Sequence 17 BP; 0 A; 6 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 338 CCAGGCGCGCTGCTCT 354  
 Db 1 COTGGCGCTGCTGCTGT 17  
 RESULT 757  
 ABA77217/c  
 ID ABA77217 standard; DNA; 17 BP.  
 XX  
 AC ABA77217;  
 XX  
 DT 24-JAN-2002 (first entry)  
 XX  
 DE Adenosine deaminase deficiency correcting oligo SEQ ID NO: 63.  
 XX  
 KW Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;

KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cyrostatic; antisickling; antianaemic; haemostatic;  
 KW antilipemic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200173002-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-US009761.  
 XX  
 PR 27-MAR-2000; 2000US-0192176P.  
 XX  
 PR 27-MAR-2000; 2000US-0192179P.  
 XX  
 PR 01-JUN-2000; 2000US-0208538P.  
 XX  
 PR 30-OCT-2000; 2000US-0244989P.  
 XX  
 PA (UYDE ) UNIV DELAWARE.  
 XX  
 PI Kmiec EB, Gamper HB, Rice MC;  
 XX  
 DR WPI; 2001-639230/73.  
 XX  
 PT Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.  
 XX  
 PS Claim 7; Page 44; 294pp; English.  
 XX  
 CC The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 8 G; 2 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 89 GGACATCACACGCTGTG 105  
 Db 17 GGGCACACCTCGCTGTG 1  
 RESULT 758  
 ABA80849  
 ID ABA80849 standard; DNA; 17 BP.  
 XX  
 AC ABA80849;  
 XX  
 DT 24-JAN-2002 (first entry)  
 XX  
 DE LDLR mutation correcting oligonucleotide SEQ ID NO: 3695.  
 XX  
 KW Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;

KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;  
 KW antilipemic; ss.

OS Homo sapiens.

XX WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE ) UNIV DELAWARE.

XX Kmiec EB, Gampier HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.

XX Claim 7; Page 245; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention

XX SQ Sequence 17 BP; 4 A; 4 C; 9 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 74 CGAGGCGCCGCGAGTGG 90

DB 1 CGAAGCGCGAGCGGG 17

RESULT 759

ABR8117/C

ID ABR8117 standard; DNA; 17 BP.

XX ABR8117;

XX 24-JAN-2002 (first entry)

XX UGT1 mutation correcting oligonucleotide SEQ ID NO: 3963.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;

KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;  
 KW antilipemic; ss.

OS Homo sapiens.

XX WO200173002-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009761.

XX 27-MAR-2000; 2000US-0192176P.

XX 27-MAR-2000; 2000US-0192179P.

XX 01-JUN-2000; 2000US-0208538P.

XX 30-OCT-2000; 2000US-0244989P.

XX (UYDE ) UNIV DELAWARE.

XX Kmiec EB, Gampier HB, Rice MC;

XX WPI; 2001-639230/73.

XX Oligonucleotide for targeted alterations of genetic sequences and for  
 PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.

XX Claim 7; Page 258; 294pp; English.

XX The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention

XX SQ Sequence 17 BP; 5 A; 6 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 338 CGAGGCGCCGCGTCTCT 354

DB 17 CGTGGCGCTGCTGCTGT 1

RESULT 760

ABR80848/C

ID ABR80848 standard; DNA; 17 BP.

XX ABR80848;

XX 24-JAN-2002 (first entry)

XX LDLR mutation correcting oligonucleotide SEQ ID NO: 3694.

XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;

adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 Alzheimer's disease; cytosstatic; antiscikling; antianaemic; haemostatic;  
 antilipemic; ss.

Homo sapiens.

WO200173002-A2.

04-OCT-2001.

27-MAR-2001; 2001WO-US009761.

27-MAR-2000; 2000US-0192176P.

27-MAR-2000; 2000US-0192179P.

01-JUN-2000; 2000US-0208538P.

30-OCT-2000; 2000US-0244989P.

(UYDE ) UNIV DELAWARE.

Kmiec EB, Gamper HB, Rice MC;

WPI; 2001-639230/73.

Oligonucleotide for targeted alterations of genetic sequences and for

treating cystic fibrosis, comprises at least one mismatch and chemical

modification.

Claim 7; Page 245; 294pp; English.

The present invention provides single-stranded oligonucleotides which can  
 be used for the targeted alteration of genomic sequences, where the  
 oligonucleotide has at least one mismatch compared with the genomic  
 sequence to be altered. In particular, these sequences are directed at  
 the following genes: adenosine deaminase, p53, beta-globin,  
 retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
 presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 various syndromes. The present sequence is one of the gene correcting  
 oligonucleotides of the invention

Sequence 17 BP; 0 A; 9 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 74 CGAGGCGCGCGAGTGG 90

Db 17 CGAAGCGCGAGCGGG 1

RESULT 761

ABA77218

ID ABA77218 standard; DNA; 17 BP.

XX ABA77218;

AC ABA77218;

XX 24-JAN-2002 (first entry)

DT 24-JAN-2002 (first entry)

XX Adenosine deaminase deficiency correcting oligo SEQ ID NO: 64.

DE Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;

XX Human; retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;

KW

cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
 mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 Alzheimer's disease; cytosstatic; antiscikling; antianaemic; haemostatic;  
 antilipemic; ss.

Homo sapiens.

WO200173002-A2.

04-OCT-2001.

27-MAR-2001; 2001WO-US009761.

27-MAR-2000; 2000US-0192176P.

27-MAR-2000; 2000US-0192179P.

01-JUN-2000; 2000US-0208538P.

30-OCT-2000; 2000US-0244989P.

(UYDE ) UNIV DELAWARE.

Kmiec EB, Gamper HB, Rice MC;

WPI; 2001-639230/73.

Oligonucleotide for targeted alterations of genetic sequences and for

treating cystic fibrosis, comprises at least one mismatch and chemical

modification.

Claim 7; Page 44; 294pp; English.

The present invention provides single-stranded oligonucleotides which can  
 be used for the targeted alteration of genomic sequences, where the  
 oligonucleotide has at least one mismatch compared with the genomic  
 sequence to be altered. In particular, these sequences are directed at  
 the following genes: adenosine deaminase, p53, beta-globin,  
 retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
 (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
 presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
 Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 various syndromes. The present sequence is one of the gene correcting  
 oligonucleotides of the invention

Sequence 17 BP; 2 A; 8 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 89 GGACATCACCACCTCTG 105

Db 1 GGCACACACCTCTCTG 17

RESULT 762

ABL47246

ID ABL47246 standard; RNA; 17 BP.

XX ABL47246;

AC ABL47246;

XX 27-JUN-2003 (first entry)

DT 27-JUN-2003 (first entry)

XX Human GRD Amberzyme substrate oligonucleotide #146.

DE Human; Grb2-related with Insert Domain; GRD; T-cell;

XX

KW

KW co-stimulatory adaptor protein; tissue rejection; graft rejection;  
 KW leukaemia; cytostatic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200162911-A2.  
 XX  
 PD 30-AUG-2001.  
 XX  
 XX  
 PF 23-FEB-2001; 2001WO-US005957.  
 XX  
 XX 24-FEB-2000; 2000US-0184594P.  
 PR  
 PR (RIBO-) RIBOZYME PHARM INC.  
 PA (GLAXO) GLAXO GROUP LTD.  
 PA  
 XX  
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;  
 XX WPI; 2001-550088/61.  
 DR  
 XX New nucleic acid(s) for regulating the Grb2-related with Insert Domain  
 PT (GRD) gene comprises using antisense and enzymatic nucleic acid  
 PT molecules such as hammerhead ribozymes.  
 XX  
 PS Claim 4; Page 88; 108pp; English.  
 XX  
 CC The present invention relates to oligonucleotides that downregulate the  
 CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is  
 CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful  
 CC for modulating the expression of GRID, to treat conditions such as  
 CC tissue/graft rejection and leukaemia. The oligonucleotides can also be  
 CC administered in conjunction with other therapies such as radiation,  
 CC chemotherapy and cyclosporin treatment. The present oligonucleotide was  
 CC used to illustrate the invention  
 XX  
 SQ Sequence 17 BP; 2 A; 2 C; 9 G; 0 T; 4 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 64.7%; Pred. No. 4.2e+02;  
 Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;  
 QY 289 AGCTGCTGAGGACCTG 305  
 Db 1 AGUGGUGGAGGUCCUG 17  
 RESULT 763  
 ABN01488/c  
 ID ABN01488 standard; DNA; 17 BP.  
 XX  
 AC ABN01488;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1480.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 XX 06-DEC-2001.  
 PD  
 XX  
 XX 25-MAY-2001; 2001WO-US016981.  
 PF  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (ABOM-) AEOMICA INC.  
 XX  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 DR  
 XX  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 1480; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pot\_sequence  
 XX  
 SQ Sequence 17 BP; 3 A; 5 C; 8 G; 1 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 125 CGGCATGCTGCGCGCC 141  
 Db 17 CGGCTTCTGCGCCAGCC 1  
 RESULT 764  
 ABN01489/c  
 ID ABN01489 standard; DNA; 17 BP.  
 XX  
 AC ABN01489;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1481.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX

PN WO200192524-A2.  
XX 06-DEC-2001.  
XX 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.  
XX 30-JAN-2001; 2001WO-US000670.  
XX 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX Disclosure; SEQ ID NO 1481; 214pp; English.  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterize and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX of hGDMPLP-1 proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
XX SQ Sequence 17 BP; 3 A; 5 C; 7 G; 2 T; 0 U; 0 Other;  
XX  
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;  
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
XX QY 124 ACGGCTGCTGGCCCG 140  
XX 17 ACGGCTCTGGCCAGC 1  
XX  
XX RESULT 765  
XX ABN06221/c  
XX ID ABN06221 standard; DNA; 17 BP.  
XX XX  
XX AC ABN06221;

XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6213.  
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PR 21-SEP-2000; 2000US-0234687P.  
XX PR 27-SEP-2000; 2000US-0236359P.  
XX PR 04-OCT-2000; 2000GB-00024263.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000662.  
XX PR 30-JAN-2001; 2001WO-US000663.  
XX PR 30-JAN-2001; 2001WO-US000664.  
XX PR 30-JAN-2001; 2001WO-US000665.  
XX PR 30-JAN-2001; 2001WO-US000666.  
XX PR 30-JAN-2001; 2001WO-US000667.  
XX PR 30-JAN-2001; 2001WO-US000668.  
XX PR 30-JAN-2001; 2001WO-US000669.  
XX PR 30-JAN-2001; 2001WO-US000670.  
XX PR 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX Disclosure; SEQ ID NO 6213; 214pp; English.  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterize and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX of hGDMPLP-1 proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
XX SQ Sequence 17 BP; 4 A; 7 C; 4 G; 2 T; 0 U; 0 Other;  
XX  
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;  
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX

QY 291 CTGGTGAAGGACCTGAG 307  
 |||||  
 Db 17 CTGTTGACGAGCTGGG 1

## RESULT 766

ABN01022  
 ID ABN01022 standard; DNA; 17 BP.

XX AC ABN01022;  
 XX

DT 29-MAY-2002 (first entry)

XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1014.

XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.

XX Homo sapiens.

XX WO200192524-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 05-FEB-2001; 2001WO-US000670.

XX (AEOM-) AECOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WPI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.

XX Disclosure; SEQ ID NO 1014; 214pp; English.

XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterize and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognize hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption ionization, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.

CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence

XX SQ Sequence 17 BP; 8 A; 1 C; 8 G; 0 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 206 GAAAGCAGAGACTCGG 222

Db 1 GAAAGCAGAGAGGAGG 17

## RESULT 767

ABN00791/c

ID ABN00791 standard; DNA; 17 BP.

XX AC ABN00791;

DT 29-MAY-2002 (first entry)

XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:783.

XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.

XX Homo sapiens.

XX WO200192524-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 05-FEB-2001; 2001WO-US000670.

XX (AEOM-) AECOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WPI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.

XX Disclosure; SEQ ID NO 783; 214pp; English.

XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterize and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1

CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 214 AGAATCGGTGGGGCC 230  
 DB 17 AGATCTCGGTGCTGGCC 1  
 RESULT 768  
 ABNO9029  
 ID ABNO9029 standard; DNA; 17 BP.  
 XX  
 AC ABNO9029;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9021.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (ABOM-) AEOMICA INC.  
 XX  
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,

PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption/ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 9021; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 289 AGCTGGTGAAGGACCTG 305  
 DB 1 AGCTGGAGAGTACGTG 17  
 RESULT 769  
 ABNO9927/c  
 ID ABNO9927 standard; DNA; 17 BP.  
 XX  
 AC ABNO9927;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9919.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.



PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-026686P.  
XX  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 9919; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterize and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX capture probes for surface-enhanced laser desorption/ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
XX Sequence 17 BP; 2 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
XX  
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;  
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
XX 71 CTACGAGGCGCGCGAG 87  
XX 17 CTAAGAGGAGCTGCAG 1  
XX  
XX  
XX RESULT 770  
XX ABN01487/C  
XX ID ABN01487 standard; DNA; 17 BP.  
XX AC ABN01487;  
XX  
XX 29-MAY-2002 (first entry)  
XX  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1479.  
XX  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX skeletal muscle disorder; amplicon; screening; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200192524-A2.  
XX  
XX 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016981.  
XX  
XX 26-MAY-2000; 2000US-0207456P.

PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-026686P.  
XX  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 1479; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterize and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption/ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
XX Sequence 17 BP; 4 A; 5 C; 7 G; 1 T; 0 U; 0 Other;  
XX  
XX Query Match 2.9%; Score 12.2; DB 1; Length 17;  
XX Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
XX 126 GCGATGCTGGCGCGCT 142  
XX 17 GCGTCTCTGGCGCGCT 1  
XX  
XX  
XX RESULT 771  
XX ABQ63350  
XX ID ABQ63350 standard; DNA; 17 BP.  
XX AC ABQ63350;  
XX  
XX 20-AUG-2002 (first entry)  
XX  
XX Human KTOM1a portion (ABQ63232) probe # 63.  
XX  
XX Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;  
XX gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
XX



KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;  
 KW DP-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;  
 KW ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX EP1243660-A2.  
 XX PD 25-SEP-2002.  
 XX PF 25-JAN-2002; 2002EP-00001161.  
 XX PR 30-JAN-2001; 2001WO-US000663.  
 XX PR 30-JAN-2001; 2001WO-US000664.  
 XX PR 30-JAN-2001; 2001WO-US000665.  
 XX PR 30-JAN-2001; 2001WO-US000666.  
 XX PR 30-JAN-2001; 2001WO-US000667.  
 XX PR 30-JAN-2001; 2001WO-US000668.  
 XX PR 30-JAN-2001; 2001WO-US000669.  
 XX PR 30-JAN-2001; 2001WO-US000670.  
 XX PR 23-MAY-2001; 2001US-00864761.  
 XX PR 30-AUG-2001; 2001US-0315984P.  
 XX PA (AEOM-) AEOMICA INC.  
 XX PI Zhang J, Gu Y, Nguyen C;  
 XX WPI; 2002-724954/79.  
 XX DR Nucleic acid encoding human UDP-GalNAc:polypeptide N-  
 XX PT cetylalactosaminyltransferase 10 protein is useful to diagnose, prevent  
 XX PT and treat disorders associated with reduced or over expression of the  
 XX PT encoded protein.  
 XX PS Example 2; SEQ ID NO 541; 59pp; English.  
 XX CC The present invention describes an isolated nucleic acid (I) encoding a  
 XX CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-  
 XX CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to  
 XX CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the  
 XX CC present invention can be used in therapy, particularly to prevent or  
 XX CC treat a disorder associated with decreased expression or activity of pp-  
 XX CC GaNTase. The sequences given in ABV85011 to ABV86689 and ABP53502 to  
 XX CC ABP53504 are given in the exemplification of the present invention. N.B.  
 XX CC The sequence data for this patent is not represented in the printed  
 XX CC specification but is based on sequence information supplied by the  
 XX CC European Patent Office  
 XX SQ Sequence 17 BP; 4 A; 4 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 403 TCTTCTACGTGTCGAG 419  
 DB 1 TCATCTTCGTGAACGAG 17  
 RESULT 774  
 ABV85708  
 ID ABV85708 standard; DNA; 17 BP.  
 XX AC ABV85708;  
 XX DT 11-DEC-2002 (first entry)  
 XX DE Human pp-GaNTase 10 scanning 17-mer SEQ ID NO:701.  
 XX KW Human; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10;  
 KW KW pp-GaNTase 10; EC 2.4.1.41; chromosome 7q11.2; gene therapy; scanning;  
 KW ss.

XX Homo sapiens.  
 OS Synthetic.  
 XX EP1243660-A2.  
 XX PD 25-SEP-2002.  
 XX PF 25-JAN-2002; 2002EP-00001161.  
 XX PR 30-JAN-2001; 2001WO-US000663.  
 XX PR 30-JAN-2001; 2001WO-US000664.  
 XX PR 30-JAN-2001; 2001WO-US000665.  
 XX PR 30-JAN-2001; 2001WO-US000666.  
 XX PR 30-JAN-2001; 2001WO-US000667.  
 XX PR 30-JAN-2001; 2001WO-US000668.  
 XX PR 30-JAN-2001; 2001WO-US000669.  
 XX PR 23-MAY-2001; 2001US-00864761.  
 XX PR 30-AUG-2001; 2001US-0315984P.  
 XX PA (AEOM-) AEOMICA INC.  
 XX PI Zhang J, Gu Y, Nguyen C;  
 XX WPI; 2002-724954/79.  
 XX DR Nucleic acid encoding human UDP-GalNAc:polypeptide N-  
 XX PT cetylalactosaminyltransferase 10 protein is useful to diagnose, prevent  
 XX PT and treat disorders associated with reduced or over expression of the  
 XX PT encoded protein.  
 XX PS Example 2; SEQ ID NO 701; 59pp; English.  
 XX CC The present invention describes an isolated nucleic acid (I) encoding a  
 XX CC human UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 10 (pp-  
 XX CC GaNTase 10, EC 2.4.1.41) protein. Human pp-GaNTase 10 is located to  
 XX CC chromosome 7q11.2. (I) can be used in gene therapy. Molecules of the  
 XX CC present invention can be used in therapy, particularly to prevent or  
 XX CC treat a disorder associated with decreased expression or activity of pp-  
 XX CC GaNTase. The sequences given in ABV85011 to ABV86689 and ABP53502 to  
 XX CC ABP53504 are given in the exemplification of the present invention. N.B.  
 XX CC The sequence data for this patent is not represented in the printed  
 XX CC specification but is based on sequence information supplied by the  
 XX CC European Patent Office  
 XX SQ Sequence 17 BP; 2 A; 5 C; 8 G; 2 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 284 CACCAAGCTGCTGAAGG 300  
 DB 1 CCCCAGGCTGCTGAAGG 17  
 RESULT 775  
 ABV79551/c  
 ID ABV79551 standard; DNA; 17 BP.  
 XX AC ABV79551;  
 XX DT 03-JAN-2003 (first entry)  
 XX DE Human HTPL scanning oligonucleotide SEQ ID 797.  
 XX KW Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1;  
 KW KW human testis expressed Patched like protein; testis; adrenal; liver;  
 KW KW male germ cell development; bone marrow; brain; kidney; lung; placenta;  
 KW KW prostate; skeletal muscle; colon; male infertility; cancer; ss.  
 XX Homo sapiens.

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XX PN EP1229046-A2.
XX PN
XX PD 07-AUG-2002.
XX PF
XX PP 28-JAN-2002; 2002EP-00001167.
XX PR 30-JAN-2001; 2001WO-US0000663.
XX PR 30-JAN-2001; 2001WO-US0000664.
XX PR 30-JAN-2001; 2001WO-US0000665.
XX PR 30-JAN-2001; 2001WO-US0000666.
XX PR 30-JAN-2001; 2001WO-US0000667.
XX PR 30-JAN-2001; 2001WO-US0000668.
XX PR 30-JAN-2001; 2001WO-US0000669.
XX PR 23-MAY-2001; 2001US-00864761.
XX PR 09-OCT-2001; 2001US-03278989.
XX PA (AEOM-) AEOMICA INC.
XX PI
XX PI Zhan J;
XX DR WPI; 2002-676582/73.
XX DR
XX PT Novel isolated human testis expressed Patched like protein (HTPL), useful
XX PT for identifying agonist and antagonist and specific binding partners, and
XX PT for treating subjects having defects in HTPL.
XX PS Example 2; Page 168; 718pp; English.
XX CC The present invention relates to human testis expressed Patched like
XX CC protein (HTPL, see ABV78759 to ABV78762 and ABV98519 to ABV98520). HTPL
XX CC has two isoforms, with a few single base pair differences between the
XX CC two. One of the single base pair changes introduces a premature stop
XX CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL
XX CC shares an overall structure organisation with the Patched protein. The
XX CC shared structural features strongly imply that HTPL plays a role similar
XX CC to that of Patched, and is a potential tumour suppressor. HTPL is
XX CC important in regulating male germ cell development, and the HTPL gene was
XX CC mapped to human chromosome 10p12.1. HTPL and its coding sequence are
XX CC useful for diagnosing a disorder caused by mutation in HTPL, and in
XX CC therapy and manufacture of a medicament for treatment or prevention of
XX CC such disorder associated with decreased expression or activity of human
XX CC HTPL. Such disorders include disorders of testis, or adrenal, adult and
XX CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
XX CC skeletal muscle or colon function. HTPL proteins and nucleic acids are
XX CC clinically useful diagnostic markers and potential therapeutic agents for
XX CC male infertility and cancer. The present oligonucleotide was used in an
XX CC example from the invention
XX SQ Sequence 17 BP; 3 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 373 TCTGACCGCGACGAC 389
Db 17 TCTGACCGCGCGGTC 1
RESULT 776
ABV91033/c
ID ABV91033 standard; DNA; 17 BP.
XX AC ABV91033;
XX DT 23-DEC-2002 (first entry)
XX DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1746.
XX KW Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
XX KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
XX KW gene therapy; transgenic; ss.
XX KW
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OS Homo sapiens.
XX XX
XX PN EP1239051-A2.
XX PD
XX PF 11-SEP-2002.
XX PP 28-JAN-2002; 2002EP-00001165.
XX PR 30-JAN-2001; 2001WO-US0000663.
XX PR 30-JAN-2001; 2001WO-US0000664.
XX PR 30-JAN-2001; 2001WO-US0000665.
XX PR 30-JAN-2001; 2001WO-US0000666.
XX PR 30-JAN-2001; 2001WO-US0000667.
XX PR 30-JAN-2001; 2001WO-US0000668.
XX PR 30-JAN-2001; 2001WO-US0000669.
XX PR 23-MAY-2001; 2001US-00864761.
XX PR 10-OCT-2001; 2001US-0328205P.
XX PA (AEOM-) AEOMICA INC.
XX PI
XX PI Shannon M;
XX DR WPI; 2002-684061/74.
XX DR
XX PT Novel human SH3 domain (POSH)-like signalling protein 1 polypeptide, POSHL
XX PT -1, useful for treating disorders associated with decreased expression or
XX PT activity of human POSHL1.
XX PS Example 2; SEQ ID NO 1746; 60pp + Sequence Listing; English.
XX CC The invention relates to an isolated SH3 domain (POSH)-like signalling
XX CC protein 1 (POSHL1) polypeptide (I), comprising a sequence of 730 amino
XX CC acids (SI, AB883999), a sequence having 65% sequence identity to (SI),
XX CC (SI) having 95% deviations, especially conservative substitutions or a
XX CC fragment of the sequences comprising at least 8 contiguous amino acids.
XX CC Human POSHL1 is a proto-oncogene/oncogene product that functions as an
XX CC adaptor protein that interacts with Rho family small GTPases as well as
XX CC downstream components of the signal transduction pathway. (I) is useful
XX CC for identifying a specific binding partner. (I) and nucleic acids (II)
XX CC encoding (I) are useful for diagnosing, monitoring disease and treating
XX CC caused by altered expression of human POSHL1 including diagnosing and
XX CC treating cancer, they are useful in the development of vaccines and (II) is
XX CC useful in gene therapy. (II) is useful for constructing microarrays which
XX CC are useful for measuring and for surveying gene expression and creating
XX CC transgenic non-human animals capable of producing the proteins. The
XX CC present sequence is that of a scanning oligonucleotide useful in examples
XX CC of the invention. Note: The present sequence did not form part of the
XX CC printed specification, but is based on sequence information supplied to
XX CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 4 A; 7 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 340 AGGGCCGGCTGCTCTAC 356
Db 17 AGGGCCGGCTGCTTC 1
RESULT 777
ABL31783/c
ID ABL31783 standard; DNA; 17 BP.
XX AC ABL31783;
XX DT 21-MAR-2002 (first entry)
XX DE Human HLA genotyping oligonucleotide SEQ ID NO 1272.
XX KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
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immunogenetic; transplantation; genetic disease; ss.  
 XX Homo sapiens.  
 XX WO200192572-A1.  
 XX PD 06-DEC-2001.  
 XX PF 01-JUN-2001; 2001WO-JP004662.  
 XX PR 01-JUN-2000; 2000JP-00164798.  
 XX PA (NISN) NISSHINO IND INC.  
 XX PA (SYST-) SYSTEM RES INC.  
 XX PI Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;  
 XX WPI; 2002-122074/16.  
 XX PT Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of  
 XX PT individuals e.g. by determining immunogenetic differences when  
 XX PT transplanting between them.  
 XX PS Claim 10; Page 334; 345pp; Japanese.  
 XX CC The invention relates to a typing kit for judging human leukocyte antigen  
 XX CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base  
 XX CC oligonucleotides (ABL30512-ABL31809) originating in the sequences of  
 XX CC genes e.g. belonging to HLA class I antigens on human genome and  
 XX CC containing gene polymorphisms as alloantigens have been immobilised as  
 XX CC primers for amplification of cleaved nucleic acids relating to gene  
 XX CC polymorphisms. The method is useful for judging HLA genotypes of  
 XX CC individuals by determining immunogenetic differences before transplanting  
 XX CC between them, providing genetic information to decide compatibility of  
 XX CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,  
 XX CC pancreas, Langerhans islet in pancreas and cornea, susceptibility  
 XX CC diagnosis of genetic diseases and identifying individuals  
 XX SQ Sequence 17 BP; 3 A; 7 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 304 TGAGCCCGGGGACCGC 320  
 DB 17 TGAGCCCGGGGTCCGC 1  
 RESULT 778  
 ABK56639/C  
 ID ABK56639 standard; RNA; 17 BP.  
 XX AC ABK56639;  
 XX DT 02-JUL-2002 (first entry)  
 XX DE Human CLCA1 gene enzymatic nucleic acid #1010.  
 XX KW Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
 XX KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
 XX KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
 XX KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
 XX KW acetylcysteine.  
 XX OS Homo sapiens.  
 XX PN WO200211674-A2.  
 XX PD 14-FEB-2002.  
 XX PF 09-AUG-2001; 2001WO-US024970.  
 XX PR  
 XX

09-AUG-2000; 2000US-0224383P.  
 (RIBO-) RIBOZYME PHARM INC.  
 (SYNT) SYNTEX USA LLC.  
 (THOM) THOMPSON J.  
 Thompson J, Mcswiggen J, Mckenzie T, Ayers D, Szymkowski DE;  
 Grupe A;  
 WPI; 2002-217145/27.  
 Enzymatic polynucleotide that down regulates expression of chloride  
 channel calcium activated gene, useful for treating Chronic obstructive  
 pulmonary disease (COPD), chronic bronchitis and asthma.  
 Claim 4; Page 76; 152pp; English.  
 The invention relates to enzymatic nucleic acid molecules that down  
 regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
 by cleaving RNA derived from the genes. The nucleic acid sequences are  
 useful as pharmaceutical agents for treating conditions such as chronic  
 obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
 fibrosis, obstructive bowel syndrome and any other diseases or conditions  
 that are related to or will respond to the levels of CLCA1 in a cell or  
 tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
 hence, are useful for treatment of a patient having a condition  
 associated with the level of CLCA1, where the invention further comprises  
 the use of one or more therapies under conditions suitable for the  
 treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
 antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
 nucleic acids of the invention are also used as diagnostic tools to  
 examine genetic drift and mutations within diseased cells or to detect  
 the presence of CLCA1 RNA in a cell. This sequence represents an  
 enzymatic nucleic acid molecule of the invention  
 Sequence 17 BP; 5 A; 6 C; 3 G; 0 T; 3 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 231 AAATCGGAGGCGTCTT 247  
 DB 17 AATTGGGAGGCTCCTT 1  
 RESULT 779  
 ABZ95537/C  
 ID ABZ95537 standard; DNA; 17 BP.  
 XX AC ABZ95537;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human endothelial nitric oxide synthase antisense fragment no.1401.  
 XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 XX KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 XX KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 XX KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 XX KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 XX KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX

PA (EPIG-) EPIGENESIS PHARM INC.  
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 DR  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 PS Disclosure; SEQ ID NO 10779; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiasthmatic, antiallergic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 17 BP; 0 A; 7 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 268 ACCTGAGCGAGCGCGC 284  
 DB 17 ACCGGCAGCAGGACGGC 1  
 RESULT 780  
 ABZ99035  
 ID ABZ99035 standard; DNA; 17 BP.  
 XX AC ABZ99035;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human PDE4A-MTA oligonucleotide sequence.  
 XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200285308-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PF 23-APR-2002; 2002WO-US013135.  
 XX  
 PR 24-APR-2001; 2001US-0286137P.  
 XX

PA (EPIG-) EPIGENESIS PHARM INC.  
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 DR  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 PS Disclosure; SEQ ID NO 14277; 872pp; English.  
 XX  
 CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 17 BP; 3 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 87 GTGGACATCCACGTC 103  
 DB 1 GTGGCCAGCACCATGTC 17  
 RESULT 781  
 ABZ76563  
 ID ABZ76563 standard; DNA; 17 BP.  
 XX AC ABZ76563;  
 XX DT 29-APR-2003 (first entry)  
 XX DE Lactobacillus brevis PCR primer ORF4 SEQ ID NO:66.  
 XX KW Lactobacillus brevis; beer turbidity; beer clouiding; beer; detection;  
 KW lactic acid bacteria; brewing; probe; PCR primer; ss.  
 XX  
 OS Lactobacillus brevis.  
 XX  
 PN WO200295028-A1.  
 XX  
 PD 28-NOV-2002.  
 XX  
 PF 23-MAY-2002; 2002WO-JP005022.  
 XX  
 PR 23-MAY-2001; 2001JP-00154085.  
 XX  
 PA (KIRI ) KIRIN BEER KK.  
 XX  
 PI Fujii T;  
 XX

DR WPI; 2003-120803/11.  
XX Polynucleotide probes and primers for detecting beer-clouding lactic acid  
PT bacteria, for quality control during beer production applicable in  
PT brewing industry.  
XX  
XX Claim 7; Page 31; 94pp; Japanese.  
PS  
XX The present invention describes a polynucleotide probe, or primer, for  
CC detecting beer-clouding lactic acid bacteria containing a nucleotide  
CC sequence of (I) with 8056 base pairs (see AB276501), or a nucleotide made  
CC from not less than 15 nucleotides hybridisable with its complementary  
CC sequence. Probes and primers from the present invention can be used for  
CC detecting beer-clouding lactic acid bacteria (Lactobacillus brevis) for  
CC quality control during beer production, which is applicable in the  
CC brewing industry. The present sequence represents a PCR primer for  
CC Lactobacillus brevis which is used in the exemplification of the present  
CC invention  
XX  
SQ Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 225 GCAGCCCAATCGGAGG 241  
Db 1 GCAGCCCAATCGGATG 17  
RESULT 782  
ACCS1810  
ID ACCS1810 standard; DNA; 17 BP.  
XX  
AC ACCS1810;  
XX  
DT 27-JUN-2003 (first entry)  
XX  
DE Human tumour suppressor sequence #577.  
XX  
KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;  
KW tumour regression; apoptosis; virus resistance; diagnosis;  
KW cellular degeneration.  
XX  
OS Homo sapiens.  
XX  
FN FR2826373-A1.  
XX  
PD 27-DEC-2002.  
XX  
PP 20-JUN-2001; 2001FR-00008139.  
XX  
PR 20-JUN-2001; 2001FR-00008139.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB SA.  
XX  
XX Tuijnder M, Telerman A, Amson R;  
PI  
XX WPI; 2003-250498/25.  
DR  
XX New nucleic acid sequences associated with tumor suppression, regression,  
PT apoptosis or virus resistance are useful to diagnose and treat viral  
PT disease, development of tumor cells and cell degeneration.  
XX  
XX Claim 1; Page 173; 798pp; French.  
PS  
XX This sequence represents an isolated nucleic acid sequence associated  
CC with tumour suppression or regression, apoptosis or virus resistance. The  
CC invention relates to these sequences or sequences having at least 80%  
CC identity to them, and polypeptides encoded by the sequences or  
CC polypeptides having 80% identity to the polypeptide sequences. The  
CC invention is used to diagnose or treat viral disease or disease  
CC characterized by development of tumour cells or cellular degeneration

XX  
SQ Sequence 17 BP; 6 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 273 GAGCAGGGCGGCACCAA 289  
Db 1 GATCAGGGCAGCACTAA 17  
RESULT 783  
ACA99694  
ID ACA99694 standard; DNA; 17 BP.  
XX  
AC ACA99694;  
XX  
DT 28-JUL-2003 (first entry)  
XX  
DE G-protein coupled receptor GPCR-A-1 analysis oligonucleotide #187.  
XX  
KW Human; G-protein coupled receptor; GPCR-A-1; cancer; tumour;  
KW G-Protein-Agonist; G-Protein-Antagonist; gene therapy; cytostatic; ss.  
XX  
OS Homo sapiens.  
XX  
FN WO2003031621-A2.  
XX  
PD 17-APR-2003.  
XX  
PP 11-OCT-2002; 2002WO-US032599.  
XX  
PR 12-OCT-2001; 2001US-0329000P.  
XX  
PA (AMSH ) AMERSHAM BIOSCIENCES SV CORP.  
XX  
PI Zhang J;  
XX  
DR WPI; 2003-381720/36.  
XX  
XX New GPCR-A-1 nucleic acid and polypeptide, useful for diagnosing,  
PT investigating and/or treating disorders associated with aberrant  
PT expression or activity of GPCR-A-1, such as tumors and cancers.  
XX  
XX Example 2; SEQ ID NO 211; 156pp; English.  
PS  
XX The invention describes an isolated nucleic acid encoding a G protein  
CC coupled receptor (GPCR), mutations of which cause cancer, comprising a  
CC 2225 or 1921 base pair sequence, or their degenerate variants, encoding a  
CC 409 residue amino acid sequence, all given in the specification, with or  
CC without conservative amino acid substitutions, or complements of the  
CC sequence of them. The encoding nucleic acid is not more than 100 kb in  
CC length. The methods and compositions of the present invention are useful  
CC for diagnosing, investigating and/or treating disorders associated with  
CC aberrant expression or activity of GPCR-A-1, such as tumours and cancers.  
CC This sequence represents an oligonucleotide used to analyse the gene  
CC encoding human G-protein coupled receptor GPCR-A-1  
XX  
SQ Sequence 17 BP; 4 A; 3 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 288 AAGCTGGTGAAGGACCT 304  
Db 1 AAGCTGGTGAAGGACCT 17  
RESULT 784  
ABT37105/C  
ID ABT37105 standard; DNA; 17 BP.

```

XX AC ABT37105;
XX DT
XX DE 12-JUN-2003 (first entry)
XX DE Tumour suppression related human fukutin oligo SEQ ID No 2742.
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX KW schizophrenia; protein chip; gene therapy; tumour suppression;
XX KW human fukutin; ds.
XX OS Homo sapiens.
XX FN WO2003025175-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004208.
XX PR 17-SEP-2001; 2001FR-00011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnder M;
XX DR WPI; 2003-313353/30.
XX PT New isolated nucleic acid, useful for treating viral diseases associated
XX PT with tumors and cell degeneration, also related polypeptides, antibodies
XX PT and transfected cells.
XX PS Disclosure; Page 353; 720pp; French.
XX CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX CC given in the specification, a sequence containing at least 15 consecutive
XX CC nucleotides from the 17 mer sequence, a sequence with, after optimal
XX CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX CC hybridizes to them under highly stringent conditions, or the complement
XX CC of any of them, or the corresponding RNA. The novel isolated nucleic
XX CC acids of the invention are useful as probes and primers for detecting,
XX CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX CC component of a gene chip, in vitro as (anti)sense reagents, and for
XX CC production of recombinant polypeptides. Any of the nucleic acids,
XX CC polypeptides, vectors containing the nucleic acids, cells containing the
XX CC vector or antibodies directed against the polypeptides are useful for
XX CC preparation of pharmaceuticals for prevention and/or treatment of viral
XX CC diseases that are characterised by development of tumours or cell
XX CC degeneration, specifically cancer but also Alzheimer's disease and
XX CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
XX CC patient samples is useful for diagnosis and/or prognosis of these
XX CC diseases. The polypeptides can also be used to generate antibodies, and
XX CC both the polypeptide and antibodies are useful as components of protein
XX CC chips. The nucleic acid sequences of the invention can be used in gene
XX CC therapy. This polynucleotide sequence represents a tumour suppression
XX CC related human fukutin oligonucleotide of the invention
XX SQ Sequence 17 BP; 2 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
    Query Match 2.9%; Score 12.2; DB 1; Length 17;
    Best Local Similarity 82.4%; Pred. No. 4.2e+02;
    Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 287 CAAGCTGGTGAAGGACC 303
Db |||||
17 CAAGGAGGTGAAGGATC 1
RESULT 785
ABT34651/C
ID ABT34651 standard; DNA; 17 BP.
XX AC ABT34651;

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XX DT 12-JUN-2003 (first entry)
XX DE Tumour suppression related human fukutin oligo SEQ ID No 288.
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
XX KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
XX KW schizophrenia; protein chip; gene therapy; tumour suppression;
XX KW human fukutin; ds.
XX OS Homo sapiens.
XX FN WO2003025175-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004208.
XX PR 17-SEP-2001; 2001FR-00011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnder M;
XX DR WPI; 2003-313353/30.
XX PT New isolated nucleic acid, useful for treating viral diseases associated
XX PT with tumors and cell degeneration, also related polypeptides, antibodies
XX PT and transfected cells.
XX PS Disclosure; Page 67; 720pp; French.
XX CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
XX CC given in the specification, a sequence containing at least 15 consecutive
XX CC nucleotides from the 17 mer sequence, a sequence with, after optimal
XX CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that
XX CC hybridizes to them under highly stringent conditions, or the complement
XX CC of any of them, or the corresponding RNA. The novel isolated nucleic
XX CC acids of the invention are useful as probes and primers for detecting,
XX CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
XX CC component of a gene chip, in vitro as (anti)sense reagents, and for
XX CC production of recombinant polypeptides. Any of the nucleic acids,
XX CC polypeptides, vectors containing the nucleic acids, cells containing the
XX CC vector or antibodies directed against the polypeptides are useful for
XX CC preparation of pharmaceuticals for prevention and/or treatment of viral
XX CC diseases that are characterised by development of tumours or cell
XX CC degeneration, specifically cancer but also Alzheimer's disease and
XX CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
XX CC patient samples is useful for diagnosis and/or prognosis of these
XX CC diseases. The polypeptides can also be used to generate antibodies, and
XX CC both the polypeptide and antibodies are useful as components of protein
XX CC chips. The nucleic acid sequences of the invention can be used in gene
XX CC therapy. This polynucleotide sequence represents a tumour suppression
XX CC related human fukutin oligonucleotide of the invention
XX SQ Sequence 17 BP; 3 A; 1 C; 8 G; 5 T; 0 U; 0 Other;
    Query Match 2.9%; Score 12.2; DB 1; Length 17;
    Best Local Similarity 82.4%; Pred. No. 4.2e+02;
    Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 92 CATCACACGCTCGACC 108
Db |||||
17 CAACACACGCTCGATC 1
RESULT 786
ABT37464/C
ID ABT37464 standard; DNA; 17 BP.
XX AC ABT37464;
XX DT 12-JUN-2003 (first entry)

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XX Tumour suppression related human fukutin oligo SEQ ID No 3101.  
DE Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; protein chip; gene therapy; tumour suppression;  
KW human fukutin; ds.  
XX  
OS Homo sapiens.  
EN WO2003025175-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004208.  
XX  
PR 17-SEP-2001; 2001FR-00011978.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telexman A, Anson R, Tuijnder M;  
DR WPI; 2003-313353/30.  
XX  
PT New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX  
PS Disclosure; Page 395; 720pp; French.  
XX  
CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
CC given in the specification, a sequence containing at least 15 consecutive  
CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
CC hybridizes to them under highly stringent conditions, or the complement  
CC of any of them, or the corresponding RNA. The novel isolated nucleic  
CC acids of the invention are useful as probes and primers for detecting,  
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
CC component of a gene chip, in vitro as (anti)sense reagents, and for  
CC production of recombinant polypeptides. Any of the nucleic acids,  
CC polypeptides, vectors containing the nucleic acids, cells containing the  
CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterised by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX  
SQ Sequence 17 BP; 2 A; 5 C; 7 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 302 CCTGAGCCCGGGGACC 318  
Db 17 CCTGAGCCCGGGGATC 1  
RESULT 787  
ACA07885  
ID ACA07885 standard; RNA; 17 BP.  
XX  
AC ACA07885;  
XX  
XX  
DT 03-JUN-2003 (first entry)  
XX  
DE NFKB sub-unit modulating zinzyme substrate #284.

XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
KW cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;  
KW gencitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
OS  
XX Homo sapiens.  
XX US2002177568-A1.  
XX  
XX 28-NOV-2002.  
XX  
XX 23-MAY-2001; 2001US-00864785.  
XX  
XX 07-DEC-1992; 92US-00987132.  
XX 18-MAY-1994; 94US-00245466.  
XX 15-AUG-1994; 94US-00291932.  
XX 23-DEC-1996; 96US-00777916.  
XX  
XX (STIN/) STINCHOMB D T.  
XX (MCSW/) MCSWIGGEN J.  
XX (DRAP/) DRAPER K G.  
XX  
XX Stinchcomb DT, Mcswiggen J, Draper KG;  
XX WPI; 2003-340953/32.  
XX  
XX Novel enzymatic nucleic acid molecules which down regulates expression of  
XX a sequence encoding a subunit of nuclear factor kappa B useful for  
XX treating cancer, inflammatory disorders and autoimmune diseases.  
XX  
XX Claim 3; Page 41; 72pp; English.  
XX  
XX The invention describes an enzymatic nucleic acid molecule (I) which down  
XX regulates expression of a sequence encoding a subunit of nuclear factor  
XX kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
XX configuration. The enzymatic nucleic acid molecule is adapted to treat  
XX cancer and is useful for down-regulating REL-A activity in a cell, for  
XX treating a patient having a condition associated with the level of REL-A.  
XX (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
XX the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
XX antisense nucleic acid molecules are useful for treating breast, lung,  
XX prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
XX cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
XX multidrug resistant cancer. The method involves use of other drug  
XX therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
XX chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
XX cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,  
XX gencitabine or radiation therapy. The enzymatic and antisense nucleic  
XX acid molecules are also useful for treating inflammatory disease such as  
XX rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
XX obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
XX rejection, gene therapy applications, ischaemia/reperfusion injury  
XX (central nervous system (CNS) and myocardial), glomerulonephritis,  
XX sepsis, allergic airway inflammation, inflammatory bowel disease or  
XX infection. This sequence represents the substrate of a novel enzymatic  
XX nucleic acid molecule  
XX  
XX Sequence 17 BP; 2 A; 6 C; 6 G; 0 T; 3 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 4.2e+02;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes, obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft rejection, gene therapy applications, ischaemia/reperfusion injury (central nervous system (CNS) and myocardial), glomerulonephritis, sepsis, allergic airway inflammation, inflammatory bowel disease or infection. This sequence represents the substrate of a novel enzymatic nucleic acid molecule

XX SQ Sequence 17 BP; 2 A; 9 C; 4 G; 0 T; 2 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 140 CCGCGCGTGGAGCCG 156  
DB 17 CGTCGAGTGGAGCCG 1

RESULT 789  
ACA06721/C  
ID ACA06721 standard; RNA; 17 BP.  
AC ACA06721;  
DT 03-JUN-2003 (first entry)  
XX DE NFKB sub-unit modulating inozyme substrate #540.  
XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme; G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer; cervical cancer; head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; ss.

XX OS Homo sapiens.  
XX PN US2002177568-A1.  
XX PD 28-NOV-2002.  
XX PF 23-MAY-2001; 2001US-00864785.  
XX PR 07-DEC-1992; 92US-00987132.  
XX PR 18-MAY-1994; 94US-00245466.  
XX PR 15-AUG-1994; 94US-00291932.  
XX PR 23-DEC-1996; 96US-00777916.  
XX PA (STIN/) STINCHOMB D T.  
XX PA (MCSW/) MCSWIGGEN J.  
XX PA (DRAP/) DRAPER K G.  
XX PI Stinchcomb DT, Mcswiggen J, Draper KG;  
XX WPI; 2003-340953/32.  
XX Novel enzymatic nucleic acid molecules which down regulates expression of kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme treating cancer, inflammatory disorders and autoimmune diseases.  
XX Claim 3; Page 35; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B useful for treating cancer, inflammatory disorders and autoimmune diseases.

XX Claim 3; Page 35; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme

QY 342 GCGCGGCTCTCTACAG 358  
DB 1 GCGCGGCGCTCTCTACAG 17

RESULT 788  
ACA06444/C  
ID ACA06444 standard; RNA; 17 BP.  
AC ACA06444;  
DT 03-JUN-2003 (first entry)  
XX DE NFKB sub-unit modulating inozyme substrate #263.  
XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme; G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human; lung cancer; prostate cancer; colorectal cancer; brain cancer; oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer; cervical cancer; head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes; rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia; gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis; transplant/graft rejection; reperfusion injury; glomerulonephritis; allergic airway inflammation; inflammatory bowel disease; infection; ss.

XX OS Homo sapiens.  
XX PN US2002177568-A1.  
XX PD 28-NOV-2002.  
XX PF 23-MAY-2001; 2001US-00864785.  
XX PR 07-DEC-1992; 92US-00987132.  
XX PR 18-MAY-1994; 94US-00245466.  
XX PR 15-AUG-1994; 94US-00291932.  
XX PR 23-DEC-1996; 96US-00777916.  
XX PA (STIN/) STINCHOMB D T.  
XX PA (MCSW/) MCSWIGGEN J.  
XX PA (DRAP/) DRAPER K G.  
XX PI Stinchcomb DT, Mcswiggen J, Draper KG;  
XX WPI; 2003-340953/32.  
XX Novel enzymatic nucleic acid molecules which down regulates expression of kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme treating cancer, inflammatory disorders and autoimmune diseases.  
XX Claim 3; Page 31; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down regulates expression of a sequence encoding a subunit of nuclear factor kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme configuration. The enzymatic nucleic acid molecule is adapted to treat cancer and is useful for down-regulating REL-A activity in a cell, for treating a patient having a condition associated with the level of REL-A. (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and antisense nucleic acid molecules are useful for treating breast, lung, prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic, cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or multidrug resistant cancer. The method involves use of other drug therapies such as monoclonal antibodies, REL-A-specific inhibitors or chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate, cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate, gemcitabine or radiation therapy. The enzymatic and antisense nucleic acid molecules are also useful for treating inflammatory disease such as

CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
CC cancer and is useful for down-regulating REL-A activity in a cell, for  
CC treating a patient having a condition comprising a sequence of REL-A gene, in  
CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
CC antisense nucleic acid molecules are useful for treating breast, lung,  
CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
CC multidrug resistant cancer. The method involves use of other drug  
CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
CC chemotherapies including paclitaxel, docetaxel, cisplatin, methotrexate,  
CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
CC gencitabine or radiation therapy. The enzymatic and antisense nucleic  
CC acid molecules are also useful for treating inflammatory disease such as  
CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
CC rejection, gene therapy applications, ischaemia/reperfusion injury  
CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
CC infection. This sequence represents the substrate of a novel enzymatic  
CC nucleic acid molecule  
XX  
SQ Sequence 17 BP; 2 A; 3 C; 5 G; 0 T; 7 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 180 TCCAGGCGACATATCCA 196  
DB 17 TCCAGGCGACATATCCA 1  
  
RESULT 790  
ACA09012  
ID ACA09012 standard; RNA; 17 BP.  
XX  
AC ACA09012;  
XX  
DT 03-JUN-2003 (first entry)  
XX  
DE NFkB sub-unit modulating amberzyme substrate #175.  
XX  
KW Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;  
KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
KW chemotherapies; paclitaxel; docetaxel; cisplatin; methotrexate;  
KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
KW gencitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
XX  
OS Homo sapiens.  
XX  
XX US2002177568-A1.  
FN  
XX 28-NOV-2002.  
PD  
XX 23-MAY-2001; 2001US-00864785.  
PF  
XX 07-DEC-1992; 92US-00987132.  
PR  
XX 18-MAY-1994; 94US-00245466.  
PR  
XX 15-AUG-1994; 94US-00291932.  
PR  
XX 23-DEC-1996; 96US-00777916.  
PR  
XX (STIN/) STINCHCOMB D T.  
PA (MCSW/) MCSWIGGEN J.  
PA (DRAP/) DRAPER K G.

XX Stinchcomb DT, Mcswiggen J, Draper KG;  
PI WPT; 2003-340953/32.  
XX  
XX Novel enzymatic nucleic acid molecules which down regulates expression of  
XX a sequence encoding a subunit of nuclear factor kappa B useful for  
XX treating cancer, inflammatory disorders and autoimmune diseases.  
PT  
PT Claim 3; Page 54; 72pp; English.  
XX  
XX The invention describes an enzymatic nucleic acid molecule (I) which down  
XX regulates expression of a sequence encoding a subunit of nuclear factor  
XX kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
XX configuration. The enzymatic nucleic acid molecule is adapted to treat  
XX cancer and is useful for down-regulating REL-A activity in a cell, for  
XX treating a patient having a condition comprising a sequence of REL-A gene, in  
XX (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
XX the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
XX antisense nucleic acid molecules are useful for treating breast, lung,  
XX prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
XX cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
XX multidrug resistant cancer. The method involves use of other drug  
XX chemotherapies including paclitaxel, docetaxel, cisplatin, methotrexate,  
XX cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
XX gencitabine or radiation therapy. The enzymatic and antisense nucleic  
XX acid molecules are also useful for treating inflammatory disease such as  
XX rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
XX obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
XX rejection, gene therapy applications, ischaemia/reperfusion injury  
XX (central nervous system (CNS) and myocardial), glomerulonephritis,  
XX sepsis, allergic airway inflammation, inflammatory bowel disease or  
XX infection. This sequence represents the substrate of a novel enzymatic  
XX nucleic acid molecule  
XX  
SQ Sequence 17 BP; 5 A; 3 C; 8 G; 0 T; 1 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 76.5%; Pred. No. 4.2e+02;  
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
  
QY 287 CAAGCTGTGTGAAGGACC 303  
DB 1 CAGGCTGGGGAAGGAAC 17  
  
RESULT 791  
ADA99253/C  
ID ADA99253 standard; DNA; 17 BP.  
XX  
AC ADA99253;  
XX  
XX 20-NOV-2003 (first entry)  
DT  
XX Human MDZ3 scanning oligonucleotide SEQ ID 242.  
DE  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
XX Homo sapiens.  
OS  
XX BP1281758-A2.  
PN  
XX 05-FEB-2003.  
PD  
XX 30-JUL-2002; 2002EP-00016874.  
PF  
XX 02-AUG-2001; 2001US-00922181.  
PR  
XX (AEOM-) AEOMICA INC.  
PA

XX Shannon M, Gu Y, Nguyen C;  
PI WPI; 2003-423107/40.  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 242; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 4 A; 4 C; 3 G; 6 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 57 GAGGAGTCTCTGCACTA 73  
DB 17 GAAAGTCTCTGCACTA 1  
RESULT 792  
ADA99417  
ID ADA99417 standard; DNA; 17 BP.  
XX  
XX ADA99417;  
AC  
XX 20-NOV-2003 (first entry)  
DT  
XX Human MD23 scanning oligonucleotide SEQ ID 406.  
DE  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
XX Homo sapiens.  
OS  
XX EP1281758-A2.  
PN  
XX 05-FEB-2003.  
PD  
XX 30-JUL-2002; 2002EP-00016874.  
PF  
XX 02-AUG-2001; 2001US-00922181.  
PR  
XX (AEOM-) AEOMICA INC.  
PA  
XX Shannon M, Gu Y, Nguyen C;  
PI  
XX WPI; 2003-423107/40.  
DR  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT

PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 406; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 2 A; 9 C; 2 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 367 TCACCTTCTCTGACCGC 383  
DB 1 TCACCTTCTCTGACCGC 17  
RESULT 793  
ADB00316  
ID ADB00316 standard; DNA; 17 BP.  
XX  
XX ADB00316;  
AC  
XX 20-NOV-2003 (first entry)  
DT  
XX Human MD23 scanning oligonucleotide SEQ ID 1302.  
DE  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
XX Homo sapiens.  
OS  
XX EP1281758-A2.  
PN  
XX 05-FEB-2003.  
PD  
XX 30-JUL-2002; 2002EP-00016874.  
PF  
XX 02-AUG-2001; 2001US-00922181.  
PR  
XX (AEOM-) AEOMICA INC.  
PA  
XX Shannon M, Gu Y, Nguyen C;  
PI  
XX WPI; 2003-423107/40.  
DR  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 1302; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27 or MD212, e.g. cancer.

CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
SQ Sequence 17 BP; 6 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 291 CTGCTGAGGACCTGAG 307  
Db 1 CTGATGAGCACCAGAG 17  
|||||  
|  
  
RESULT 794  
ADA99419  
ID ADA99419 standard; DNA; 17 BP.  
XX  
AC ADA99419;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 408.  
XX  
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN EP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) ABOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 408; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX

CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
SQ Sequence 17 BP; 3 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 369 ACITTCCTGACCGCGA 385  
Db 1 ACTATCTGCGCGCGA 17  
|||||  
|  
  
RESULT 795  
ADA99415  
ID ADA99415 standard; DNA; 17 BP.  
XX  
AC ADA99415;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 404.  
XX  
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN EP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) ABOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 404; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
SQ Sequence 17 BP; 2 A; 10 C; 1 G; 4 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 365 CTCACCTTCTGCGACC 381  
|||||  
Db 1 CTCACCTATCTGCCCG 17

RESULT 796  
ADA99416  
ID ADA99416 standard; DNA; 17 BP.  
XX  
AC ADA99416;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MDZ3 scanning oligonucleotide SEQ ID 405.  
XX  
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
FN EP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MDZ3,  
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 405; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,  
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MDZ3,  
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.

QY 366 CTCACCTTCTGCGACC 382  
|||||  
Db 1 CTCACCTATCTGCCCG 17

RESULT 797

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 366 CTCACCTTCTGCGACC 382  
|||||  
Db 1 CTCACCTATCTGCCCG 17

ADA99418  
ID ADA99418 standard; DNA; 17 BP.  
XX  
AC ADA99418;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MDZ3 scanning oligonucleotide SEQ ID 407.  
XX  
KW Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
FN EP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MDZ3,  
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 407; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,  
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MDZ3,  
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.

QY 368 CACTTTCCTGCGCCG 384  
|||||  
Db 1 CACTATCTGCGCCG 17

RESULT 798  
ADE02421  
ID ADE02421 standard; DNA; 17 BP.  
XX  
AC ADE02421;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MDZ4 scanning oligonucleotide SEQ ID 3407.

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 368 CACTTTCCTGCGCCG 384  
|||||  
Db 1 CACTATCTGCGCCG 17

XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
XX EP1281758-A2.  
XX  
XX 05-FEB-2003.  
XX  
XX 30-JUL-2002; 2002EP-00016674.  
XX  
XX 02-AUG-2001; 2001US-00922181.  
XX  
XX (AEOM-) AEOMICA INC.  
XX  
XX Shannon M, Gu Y, Nguyen C;  
XX WPI; 2003-423107/40.  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 3407; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences; MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 3 A; 5 C; 3 G; 6 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
OY 361 ACTTCCTCACATTCCTG 377  
DB 1 AGTTCCTGACTATCCTG 17  
RESULT 799  
ACD57498  
ID ACD57498 standard; RNA; 17 BP.  
XX  
XX ACD57498;  
XX  
XX 23-SEP-2003 (first entry)  
XX  
XX HCV DNazyme substrate sequence #364.  
XX  
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
KW RNA stability; RNA expression; RNA synthesis; antisense;  
KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinczyme;  
KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;  
KW HBV reverse transcriptase; Enhancer I region; viral replication;  
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;

virucide; antiinflammatory; substrate; ss.  
KW  
XX Hepatitis C virus.  
OS  
XX WO200291494-A1.  
PN  
XX 17-OCT-2002.  
PD  
XX  
XX 26-MAR-2002; 2002WO-US009187.  
PF  
XX 26-MAR-2001; 2001US-00817879.  
PR  
XX 08-JUN-2001; 2001US-00877478.  
PR  
XX 08-JUN-2001; 2001US-0296876P.  
PR  
XX 24-OCT-2001; 2001US-0335059P.  
PR  
XX 05-DEC-2001; 2001US-0337055P.  
PR  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX (BLAT/) BLATT L.  
PA  
XX (MACE/) MACEJAK D.  
PA  
XX (MCSW/) MCSWIGGEN J.  
PA  
XX (MORR/) MORRISSEY D.  
PA  
XX (PAVC/) PAVCO P.  
PA  
XX (LEEP/) LEE P.  
PA  
XX (DRAP/) DRAPER K.  
PA  
XX (ROBE/) ROBERTS E.  
XX  
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
PI Draper K, Roberts E;  
PI  
XX WPI; 2003-229207/22.  
DR  
XX Novel compound useful for treating cirrhosis, liver failure,  
XX hepatocellular carcinoma, or condition associated with hepatitis C virus  
PT infection.  
PT  
XX Claim 1; Page 240; 387pp; English.  
PS  
XX The present invention relates to nucleic acid molecules which modulate  
CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
CC inozymes, zinczymes, amberzymes, and G-cleaver ribozymes. Also disclosed  
CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
CC DNA. The nucleic acids may be used to modulate the expression of HBV  
CC genes and HBV viral replication. Also disclosed is a method for screening  
CC compounds and/or potential therapies directed against HBV, and compounds  
CC that modulate the expression and/or replication of HCV. The compounds and  
CC methods of the invention are useful for the treatment of degenerative and  
CC disease states related to HBV and HCV infection, replication and gene  
CC expression such as cirrhosis, liver failure, and hepatocellular  
CC carcinoma. The present sequence represents a substrate for one of the HCV  
CC DNazyme or minus strand DNazyme sequences disclosed in the present  
CC invention  
XX  
XX Sequence 17 BP; 4 A; 7 C; 6 G; 0 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
OY 272 GGAGCAGGGCGGCACCA 288  
DB 1 GCGCAGGGCGGCACCA 17  
RESULT 800  
ACD58952  
ID ACD58952 standard; RNA; 17 BP.  
XX  
XX ACD58952;  
AC  
XX

DT 24-SEP-2003 (first entry)  
DE HCV DNAzyme substrate sequence #1090.  
XX  
KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
KW RNA stability; RNA expression; RNA synthesis; antisense;  
KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;  
KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;  
KW HBV reverse transcriptase; Enhancer I region; viral replication;  
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
KW virucide; antiinflammatory; substrate; ss.  
XX  
OS Hepatitis C virus.  
XX  
XX WO200281494-A1.  
XX  
XX 17-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009187.  
XX  
XX 26-MAR-2001; 2001US-00817879.  
XX  
XX 08-JUN-2001; 2001US-00877478.  
XX  
XX 08-JUN-2001; 2001US-0296876P.  
XX  
XX 24-OCT-2001; 2001US-0335059P.  
XX  
XX 05-DEC-2001; 2001US-0337055P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX  
XX (BLAT/) BLATT L.  
XX  
XX (MACE/) MACEJAK D.  
XX  
XX (MCSW/) MCSWIGGEN J.  
XX  
XX (MORR/) MORRISSEY D.  
XX  
XX (PAVC/) PAVCO P.  
XX  
XX (LEEP/) LEE P.  
XX  
XX (DRAP/) DRAPER K.  
XX  
XX (ROBE/) ROBERTS E.  
XX  
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
XX Draper K, Roberts E;  
XX WPI; 2003-229207/22.  
XX  
XX Novel compound useful for treating cirrhosis, liver failure,  
XX hepatocellular carcinoma, or condition associated with hepatitis C virus  
XX infection.  
XX  
XX Claim 1; Page 253; 387pp; English.  
XX  
XX The present invention relates to nucleic acid molecules which modulate  
XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
XX and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes,  
XX inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed  
XX are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
XX transcriptase and/or HBV reverse transcriptase primer sequences, as well  
XX as oligonucleotides that specifically bind the Enhancer I region of HBV  
XX DNA. The nucleic acids may be used to modulate the expression of HBV  
XX genes and HBV viral replication. Also disclosed is a method for screening  
XX compounds and/or potential therapies directed against HBV. The compounds  
XX that modulate the expression and/or replication of HCV. The compounds and  
XX methods of the invention are useful for the treatment of degenerative and  
XX disease states related to HBV and HCV infection, replication and gene  
XX expression such as cirrhosis, liver failure, and hepatocellular  
XX carcinoma. The present sequence represents a substrate for one of the HCV  
XX DNAzyme or minus strand DNAzyme sequences disclosed in the present  
XX invention  
XX  
SQ Sequence 17 BP; 2 A; 5 C; 7 G; 0 T; 3 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 4.2e+02;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

OY 250 CGGGCTCGGCCACGGTG 266  
DB 1 CGGGAUCCGUCACCGUG 17  
RESULT 801  
ACD63717/C  
ID ACD63717 standard; RNA; 17 BP.  
XX  
XX ACD63717;  
XX  
XX 30-SEP-2003 (first entry)  
XX  
XX HCV minus strand DNAzyme substrate sequence #1188.  
XX  
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
XX RNA stability; RNA expression; RNA synthesis; antisense;  
XX enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;  
XX amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;  
XX HBV reverse transcriptase; Enhancer I region; viral replication;  
XX degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
XX liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
XX virucide; antiinflammatory; substrate; ss.  
XX  
XX Hepatitis C virus.  
XX  
XX WO200281494-A1.  
XX  
XX 17-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009187.  
XX  
XX 26-MAR-2001; 2001US-00817879.  
XX  
XX 08-JUN-2001; 2001US-00877478.  
XX  
XX 08-JUN-2001; 2001US-0296876P.  
XX  
XX 24-OCT-2001; 2001US-0335059P.  
XX  
XX 05-DEC-2001; 2001US-0337055P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX  
XX (BLAT/) BLATT L.  
XX  
XX (MACE/) MACEJAK D.  
XX  
XX (MCSW/) MCSWIGGEN J.  
XX  
XX (MORR/) MORRISSEY D.  
XX  
XX (PAVC/) PAVCO P.  
XX  
XX (LEEP/) LEE P.  
XX  
XX (DRAP/) DRAPER K.  
XX  
XX (ROBE/) ROBERTS E.  
XX  
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
XX Draper K, Roberts E;  
XX WPI; 2003-229207/22.  
XX  
XX Novel compound useful for treating cirrhosis, liver failure,  
XX hepatocellular carcinoma, or condition associated with hepatitis C virus  
XX infection.  
XX  
XX Claim 1; Page 296; 387pp; English.  
XX  
XX The present invention relates to nucleic acid molecules which modulate  
XX the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
XX Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
XX and enzymatic nucleic acids such as hammerhead ribozymes, DNAzymes,  
XX inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed  
XX are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
XX transcriptase and/or HBV reverse transcriptase primer sequences, as well  
XX as oligonucleotides that specifically bind the Enhancer I region of HBV  
XX DNA. The nucleic acids may be used to modulate the expression of HBV  
XX genes and HBV viral replication. Also disclosed is a method for screening  
XX compounds and/or potential therapies directed against HBV. The compounds  
XX that modulate the expression and/or replication of HCV. The compounds and  
XX methods of the invention are useful for the treatment of degenerative and  
XX disease states related to HBV and HCV infection, replication and gene



CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNzyme or minus strand DNzyme sequences disclosed in the present  
 CC invention  
 XX  
 SQ Sequence 17 BP; 3 A; 7 C; 5 G; 0 T; 2 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 251 GGGTCGGCCACGGTCC 267

DB 17 GGGATCGGTCCCGTCC 1

RESULT 802

ACD65739/C

ID ACD65739 standard; RNA; 17 BP.

XX AC ACD65739;

XX 30-SEP-2003 (first entry)

DE HCV minus strand DNzyme substrate sequence #2202.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;  
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.

XX Hepatitis C virus.

XX WO200281494-A1.

PN 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US0009187.

XX 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.

PR 08-JUN-2001; 2001US-0296876P.

PR 24-OCT-2001; 2001US-0335059P.

PR 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MACE/) MACEJAK D.

PA (MCSW/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.

PA (PAVC/) PAVCO P.

PA (LEEP/) LEE P.

PA (DRAP/) DRAPER K.

PA (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

PI Draper K, Roberts E;

XX WPI; 2003-229207/22.

DR Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
 PT infection.  
 PT  
 XX Claim 1; Page 314; 387pp; English.

PS

XX The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense

CC and enzymatic nucleic acids such as hammerhead ribozymes, DNzymes,  
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds and  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication and gene  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNzyme or minus strand DNzyme sequences disclosed in the present  
 CC invention

XX SQ Sequence 17 BP; 2 A; 4 C; 6 G; 0 T; 5 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;

Best Local Similarity 82.4%; Pred. No. 4.2e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 261 ACGGTGACCTGGAGCA 277

DB 17 ACCGTGCACCATGAGCA 1

RESULT 803

ACD65393

ID ACD65393 standard; RNA; 17 BP.

XX AC ACD65393;

XX 30-SEP-2003 (first entry)

DE HCV minus strand DNzyme substrate sequence #2024.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinzyme;  
 KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.

XX Hepatitis C virus.

XX WO200281494-A1.

PN 17-OCT-2002.

XX 26-MAR-2002; 2002WO-US0009187.

XX 26-MAR-2001; 2001US-00817879.

PR 08-JUN-2001; 2001US-00877478.

PR 08-JUN-2001; 2001US-0296876P.

PR 24-OCT-2001; 2001US-0335059P.

PR 05-DEC-2001; 2001US-0337055P.

XX (RIBO-) RIBOZYME PHARM INC.

PA (BLAT/) BLATT L.

PA (MACE/) MACEJAK D.

PA (MCSW/) MCSWIGGEN J.

PA (MORR/) MORRISSEY D.

PA (PAVC/) PAVCO P.

PA (LEEP/) LEE P.

PA (DRAP/) DRAPER K.

PA (ROBE/) ROBERTS E.

XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;

PI Draper K, Roberts E;

DR WPI; 2003-229207/22.

XX

XX Novel compound useful for treating cirrhosis, liver failure, hepatocellular carcinoma, or condition associated with hepatitis C virus infection.

PT

XX

XX Claim 1; Page 311; 387pp; English.

XX

XX The present invention relates to nucleic acid molecules which modulate the synthesis, expression and/or stability of Hepatitis C virus (HCV) or Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes, inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed are nucleic acid decoy molecules and aptamers that bind to HBV reverse transcriptase and/or HBV reverse transcriptase primer sequences, as well as oligonucleotides that specifically bind the Enhancer I region of HBV DNA. The nucleic acids may be used to modulate the expression of HBV genes and HBV viral replication. Also disclosed is a method for screening compounds and/or potential therapies directed against HBV, and compounds that modulate the expression and/or replication of HCV. The compounds and methods of the invention are useful for the treatment of degenerative and disease states related to HBV and HCV infection, replication and gene expression such as cirrhosis, liver failure, and hepatocellular carcinoma. The present sequence represents a substrate for one of the HCV DNazyme or minus strand DNazyme sequences disclosed in the present invention

XX

XX Sequence 17 BP; 2 A; 5 C; 5 G; 0 T; 5 U; 0 Other;

XX

XX Query Match 2.9%; Score 12.2; DB 1; Length 17;

XX Best Local Similarity 54.7%; Pred. No. 4.2e+02;

XX Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

XX

Qy 129 ATGCTGGCGCCGCTGGC 145

Db 1 AUGCGCAUCCUGGC 17

XX

XX RESULT 804

XX ACD63946

XX ID ACD63946 standard; RNA; 17 BP.

XX AC ACD63946;

XX XX

XX 30-SEP-2003 (first entry)

XX HCV minus strand DNazyme substrate sequence #1305.

XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV; RNA stability; RNA expression; RNA synthesis; antisense; enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme; amberyne; G-cleaver ribozyme; decoy molecule; aptamer; HBV reverse transcriptase; Enhancer I region; viral replication; degenerative; disease state; HBV infection; HCV infection; cirrhosis; liver failure; hepatocellular carcinoma; hepatotropic; cytostatic; virucide; antiinflammatory; substrate; ss.

XX

XX Hepatitis C virus.

XX OS

XX WO200281494-A1.

XX PN

XX 17-OCT-2002.

XX PD

XX 26-MAR-2002; 2002WO-US009187.

XX PF

XX 26-MAR-2001; 2001US-00817879.

XX PR 08-JUN-2001; 2001US-00877478.

XX PR 08-JUN-2001; 2001US-0296876P.

XX PR 24-OCT-2001; 2001US-0335059P.

XX PR 05-DEC-2001; 2001US-0337055P.

XX XX

XX (RIBO-) RIBOZYME PHARM INC.

XX PA (BLAT/) BLATT L.

KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
 KW HBV reverse transcriptase; Enhancer I region; viral replication;  
 KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
 KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
 KW virucide; antiinflammatory; substrate; ss.  
 OS Hepatitis C virus.  
 XX  
 XX WO200281494-A1.  
 XX  
 XX 17-OCT-2002.  
 XX  
 XX 26-MAR-2002; 2002WO-US009187.  
 XX  
 XX 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (PAVC/) PAVCO P.  
 PA (LEBP/) LEE P.  
 PA (DRAP/) DRAPER K.  
 PA (ROBE/) ROBERTS E.  
 XX  
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
 PI Draper K, Roberts E;  
 DR WPI; 2003-229207/22.  
 XX  
 XX Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
 PT infection.  
 XX  
 PS Claim 1; Page 289; 387pp; English.  
 CC The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,  
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication and gene  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNazyme or minus strand DNazyme sequences disclosed in the present  
 CC invention  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 7 G; 0 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 383 CGACGACGGCGCCAGGA 399  
 DB 1 CGACGACGGCGCCAGGA 17  
 RESULT 807  
 ACD64280/C

XX 26-MAR-2002; 2002WO-US009187.  
 XX  
 XX 26-MAR-2001; 2001US-00817879.  
 PR 08-JUN-2001; 2001US-00877478.  
 PR 08-JUN-2001; 2001US-0296876P.  
 PR 24-OCT-2001; 2001US-0335059P.  
 PR 05-DEC-2001; 2001US-0337055P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MACE/) MACEJAK D.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (MORR/) MORRISSEY D.  
 PA (PAVC/) PAVCO P.  
 PA (LEBP/) LEE P.  
 PA (DRAP/) DRAPER K.  
 PA (ROBE/) ROBERTS E.  
 XX  
 XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
 PI Draper K, Roberts E;  
 DR WPI; 2003-229207/22.  
 XX  
 XX Novel compound useful for treating cirrhosis, liver failure,  
 PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
 PT infection.  
 XX  
 PS Claim 1; Page 308; 387pp; English.  
 CC The present invention relates to nucleic acid molecules which modulate  
 CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
 CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
 CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,  
 CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
 CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
 CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
 CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
 CC DNA. The nucleic acids may be used to modulate the expression of HBV  
 CC genes and HBV viral replication. Also disclosed is a method for screening  
 CC compounds and/or potential therapies directed against HBV, and compounds  
 CC that modulate the expression and/or replication of HCV. The compounds  
 CC methods of the invention are useful for the treatment of degenerative and  
 CC disease states related to HBV and HCV infection, replication and gene  
 CC expression such as cirrhosis, liver failure, and hepatocellular  
 CC carcinoma. The present sequence represents a substrate for one of the HCV  
 CC DNazyme or minus strand DNazyme sequences disclosed in the present  
 CC invention  
 XX  
 SQ Sequence 17 BP; 1 A; 6 C; 5 G; 0 T; 5 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 42 GATGGCCACCACTCAGA 58  
 DB 17 GAGGGCCACCACTCAGA 1  
 RESULT 806  
 ACD62939  
 ID ACD62939 standard; RNA; 17 BP.  
 XX  
 XX ACD62939;  
 AC  
 XX 24-SEP-2003 (first entry)  
 DT  
 XX HCV minus strand DNazyme substrate sequence #802.  
 DE  
 XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
 KW RNA stability; RNA expression; RNA synthesis; antisense;  
 KW enzymatic nucleic acid; hammerhead ribozyme; DNazyme; inozyme; zinzyme;

ID AC64280 standard; RNA; 17 BP.  
AC AC64280;  
DT 30-SEP-2003 (first entry)  
XX HCV minus strand DNase substrate sequence #1471.  
DE  
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
KW RNA stability; RNA expression; RNA synthesis; antisense;  
KW enzymatic nucleic acid; hammerhead ribozyme; DNase; inozyme; zinzyme;  
KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
KW HBV reverse transcriptase; Enhancer I region; viral replication;  
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
KW virucide; antiinflammatory; substrate; ss.  
XX  
OS Hepatitis C virus.  
XX  
XX WO200281494-A1.  
XX 17-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009187.  
XX  
XX 26-MAR-2001; 2001US-00817879.  
XX 08-JUN-2001; 2001US-00877478.  
XX 08-JUN-2001; 2001US-0296876P.  
XX 24-OCT-2001; 2001US-0335059P.  
XX 05-DEC-2001; 2001US-0337055P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MACE/) MACEJAK D.  
PA (MCSW/) MCSWIGGEN J.  
PA (MORR/) MORRISSEY D.  
PA (PAVC/) PAVCO P.  
PA (LEEP/) LEE P.  
PA (DRAP/) DRAPER K.  
PA (ROBE/) ROBERTS E.  
XX  
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
PI Draper K, Roberts E;  
XX WPI; 2003-229207/22.  
DR  
XX Novel compound useful for treating cirrhosis, liver failure,  
PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
PT infection.  
XX  
PS Claim 1; Page 301; 387pp; English.  
XX  
XX The present invention relates to nucleic acid molecules which modulate  
CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
CC and enzymatic nucleic acids such as hammerhead ribozymes, DNase, inozymes,  
CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
CC DNA. The nucleic acids may be used to modulate the expression of HBV  
CC genes and HBV viral replication. Also disclosed is a method for screening  
CC compounds and/or potential therapies directed against HBV, and compounds  
CC that modulate the expression and/or replication of HCV. The compounds and  
CC methods of the invention are useful for the treatment of degenerative and  
CC disease states related to HBV and HCV infection, replication and gene  
CC expression such as cirrhosis, liver failure, and hepatocellular  
CC carcinoma. The present sequence represents a substrate for one of the HCV  
CC DNase or minus strand DNase sequences disclosed in the present  
XX invention  
XX Sequence 17 BP; 3 A; 8 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 140 CCTGGCGGTGGAGCGC 156  
DB 17 CCTGGCGGTAGCGGTCG 1  
RESULT 808  
ACD51048  
ID ACD51048 standard; RNA; 17 BP.  
XX  
AC ACD51048;  
XX 23-SEP-2003 (first entry)  
XX  
XX HBV hammerhead ribozyme substrate sequence #361.  
XX  
XX Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;  
KW RNA stability; RNA expression; RNA synthesis; antisense;  
KW enzymatic nucleic acid; hammerhead ribozyme; DNase; inozyme; zinzyme;  
KW amberyne; G-cleaver ribozyme; decoy molecule; aptamer;  
KW HBV reverse transcriptase; Enhancer I region; viral replication;  
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;  
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;  
KW virucide; antiinflammatory; substrate; ss.  
XX  
OS Hepatitis B virus.  
XX  
XX WO200281494-A1.  
XX 17-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009187.  
XX  
XX 26-MAR-2001; 2001US-00817879.  
XX 08-JUN-2001; 2001US-00877478.  
XX 08-JUN-2001; 2001US-0296876P.  
XX 24-OCT-2001; 2001US-0335059P.  
XX 05-DEC-2001; 2001US-0337055P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MACE/) MACEJAK D.  
PA (MCSW/) MCSWIGGEN J.  
PA (MORR/) MORRISSEY D.  
PA (PAVC/) PAVCO P.  
PA (LEEP/) LEE P.  
PA (DRAP/) DRAPER K.  
PA (ROBE/) ROBERTS E.  
XX  
XX Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;  
PI Draper K, Roberts E;  
XX WPI; 2003-229207/22.  
DR  
XX Novel compound useful for treating cirrhosis, liver failure,  
PT hepatocellular carcinoma, or condition associated with hepatitis C virus  
PT infection.  
XX  
PS Example 1; Page 143; 387pp; English.  
XX  
XX The present invention relates to nucleic acid molecules which modulate  
CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or  
CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense  
CC and enzymatic nucleic acids such as hammerhead ribozymes, DNase, inozymes,  
CC inozymes, zinzymes, amberyne, and G-cleaver ribozymes. Also disclosed  
CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse  
CC transcriptase and/or HBV reverse transcriptase primer sequences, as well  
CC as oligonucleotides that specifically bind the Enhancer I region of HBV  
CC DNA. The nucleic acids may be used to modulate the expression of HBV  
CC genes and HBV viral replication. Also disclosed is a method for screening



DE Thermus scotoductus nucleic acid polymerase PCR primer SEQ ID NO:30.  
XX nucleic acid polymerase; enzyme; Thermus scotoductus; DNA polymerase;  
KW salt tolerance; thermostability; PCR primer; ss.  
XX  
OS Synthetic.  
XX Thermus scotoductus.  
XX WO2003066804-A2.  
XX  
PD 14-AUG-2003.  
XX  
XX 13-SEP-2002; 2002WO-US029102.  
PF  
XX 14-SEP-2001; 2001US-0322318P.  
PR  
XX 30-NOV-2001; 2001US-0334489P.  
XX  
XX (APPL-) APPLERA CORP.  
PA (BOLC/) BOLCHAKOVA E V.  
PA (ROZZ/) ROZZELLE J E.  
XX  
PI Bolchakova EV, Rozzelle JE;  
XX  
XX WPI; 2003-663590/62.  
DR  
XX New nucleic acid encoding a Thermus scotoductus strain X-1, ATCC Deposit  
PT No. 27978 nucleic acid polymerase, useful for producing nucleic acid  
PT polymerases having e.g., improved sequence discrimination or better salt  
PT tolerance.  
XX  
XX Example 1; Page 79; 179pp; English.  
XX  
XX The present invention describes isolated nucleic acids encoding nucleic  
XX acid polymerases from Thermus scotoductus. Also described: (1) an  
XX isolated nucleic acid (I) encoding a nucleic acid polymerase from Thermus  
XX scotoductus strain X-1, ATCC Deposit No. 27978; (2) an isolated DNA  
XX polymerase polypeptide from Thermus scotoductus strain X-1, ATCC Deposit  
XX No. 27978; (3) an isolated nucleic acid (II) comprising any of a set of  
XX 12 nucleic acid sequences (S1, see ADA50425 to ADA50436) which encodes a  
XX nucleic acid polymerase; (4) an isolated nucleic acid (III) encoding a  
XX nucleic acid polymerase comprising any of a set of 16 amino acid  
XX sequences (S2, see ADA50399 to ADA50404); (5) isolated nucleic acid  
XX polymerases comprising any of amino acid sequences S2; (6) vectors  
XX comprising (I), (II), or (III), and especially expression vectors in  
XX which the nucleic acid polymerase gene is operably linked to a promoter;  
XX (7) a host cell comprising an isolated nucleic acid molecule encoding a  
XX nucleic acid polymerase from Thermus scotoductus strain X-1, ATCC Deposit  
XX No. 27978; (8) a host cell comprising (I) or (II); (9) a kit comprising a  
XX container containing a nucleic acid polymerase comprising any of amino  
XX acid sequences S2; (10) preparing (M1) a nucleic acid polymerase  
XX comprising any of amino acid sequences S2 by incubating a host cell  
XX comprising an encoding nucleic acid under conditions sufficient for RNA  
XX transcription and translation; (11) a nucleic acid polymerase prepared by  
XX M1; (12) synthesizing DNA (M2) comprising contacting a polypeptide  
XX comprising any of amino acid sequences S2 with a DNA under conditions  
XX sufficient to permit DNA polymerisation; (13) a method (M3) for  
XX thermocyclic amplification of nucleic acid; and (14) a method (M4) of  
XX primer extension. The nucleic acid is useful for producing nucleic acid  
XX polymerases having improved sequence discrimination, better salt  
XX tolerance or varying degrees of thermostability with applications e.g. in  
XX PCR and DNA sequencing. The present sequence represents a PCR primer for  
XX Thermus scotoductus nucleic acid polymerase, which is used in an example  
XX from the present invention.  
XX  
XX Sequence 17 BP; 3 A; 11 C; 1 G; 2 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 141 CTGGCGGTGGAGCGCG 157  
DB 17 CTGGAGGTGGAGGTGGG 1

## RESULT 812

ACC79937/c  
XX ACC79937 standard; DNA; 17 BP.  
XX  
AC ACC79937;  
XX  
DT 09-SEP-2003 (first entry)  
XX  
DE Thermus oshimai nucleic acid polymerase PCR primer SEQ ID NO:30.  
XX  
KW Thermus oshimai; nucleic acid polymerase; enzyme; DNA sequencing;  
KW amplification; reverse transcription; RNA amplification;  
KW primer extension; PCR primer; ss.  
XX  
OS Thermus oshimai.  
OS Synthetic.  
XX  
PN WO2003048310-A2.  
XX  
PD 12-JUN-2003.  
XX  
XX 22-NOV-2002; 2002WO-US037764.  
PF  
XX 30-NOV-2001; 2001US-0334798P.  
PR  
XX (APPL-) APPLERA CORP.  
PA  
XX Bolchakova E, Rozzelle J;  
PI  
XX WPI; 2003-505286/47.  
XX  
XX New nucleic acid, useful for DNA sequencing or amplification, reverse  
XX transcription, RNA amplification or primer extension reactions.  
XX  
XX Example 1; Page 50; 64pp; English.  
XX  
XX The present invention describes a nucleic acid (I) encoding a nucleic  
XX acid polymerase or a derivative nucleic acid polymerase with a mutation  
XX that decreases 5'-3' exonuclease activity or that reduces discrimination  
XX against dideoxynucleotide triphosphates. Also described: (1) a vector  
XX comprising the nucleic acid (I); (2) a host cell comprising the nucleic  
XX acid (1); (3) a nucleic acid polymerase or its derivative; (4) a kit  
XX comprising a container containing the nucleic acid polymerase of (3); (5)  
XX making the nucleic acid polymerase of (3); (6) synthesising a DNA; (7)  
XX thermocyclic amplification of nucleic acid; and (8) primer extending a  
XX DNA. The nucleic acid (I) is useful for DNA sequencing or amplifications,  
XX reverse transcription, RNA amplification or primer extension reactions.  
XX The present sequence represents a PCR primer for Thermus oshimai nucleic  
XX acid polymerase, which is used in an example from the present invention  
XX  
XX Sequence 17 BP; 3 A; 11 C; 1 G; 2 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 141 CTGGCGGTGGAGCGCGG 157  
DB 17 CTGGAGGTGGAGGTGGG 1

## RESULT 813

ABT44053/c  
XX ABT44053 standard; DNA; 17 BP.  
XX  
AC ABT44053;  
XX  
DT 17-OCT-2003 (first entry)  
XX  
DE Sequencing PCR primer 41 used during construction of B subtilis RB194.  
XX

KW Hyaluronic acid; glycosaminoglycan; hyaluronan synthase; antirheumatic;  
 KW UDP-glucose 6-dehydrogenase; UDP-glucose pyrophosphorylase; orthopaedic;  
 KW UDP-N-acetylglucosamine; ophthalmological; dermatological; joint surgery;  
 KW eye; rheumatology; dermatology; adhesion; development; cell motility;  
 KW cancer; angiogenesis; wound healing; ss; PCR; primer.  
 XX  
 OS Bacillus subtilis subsp. subtilis str. 168.  
 OS Synthetic.  
 XX WO2003054163-A2.  
 FN  
 XX  
 PD 03-JUL-2003.  
 XX  
 PD 20-DEC-2002; 2002WO-US041067.  
 PF  
 XX  
 PD 21-DEC-2001; 2001US-034264P.  
 PR  
 XX  
 PA (NOVO) NOVOZYMES BIOTECH INC.  
 XX  
 XX Sloma A, Behr R, Widner W, Tang M, Sternberg D, Brown S;  
 PI  
 XX WPI; 2003-559139/S2.  
 DR  
 XX  
 XX Producing a hyaluronic acid (e.g. for use in eye and joint surgery,  
 PT orthopedics, rheumatology or dermatology) comprises cultivating a  
 PT Bacillus host cell and recovering the hyaluronic acid from the  
 PT cultivation medium.  
 XX  
 XX Example 11; Page 52; 218pp; English.  
 PS  
 XX The invention relates to a novel method which comprises producing a  
 CC hyaluronic acid via cultivating a Bacillus host cell under conditions  
 CC suitable for production of the hyaluronic acid and subsequently  
 CC recovering the hyaluronic acid from the cultivation medium. The most  
 CC abundant heteropolysaccharides of the body are the glycosaminoglycans, of  
 CC which hyaluronic acid is an example. A number of enzymes are involved in  
 CC the biosynthesis of hyaluronic acid including hyaluronan synthase, UDP-  
 CC glucose 6-dehydrogenase, UDP-glucose pyrophosphorylase and UDP-N-  
 CC acetylglucosamine. The molecules of the invention demonstrate  
 CC ophthalmological, antirheumatic and dermatological activities, whilst the  
 CC method itself may be useful for producing a hyaluronan in a recombinant  
 CC host cell. The hyaluronan generated may be used in eye and joint surgery,  
 CC orthopaedics, rheumatology or dermatology and may exhibit further uses  
 CC within the fields of adhesion, development, cell motility, cancer,  
 CC angiogenesis and wound healing. The current sequence is that of the PCR  
 CC primer of the invention which was used during analysis of the enzymes  
 CC that play a role in the synthesis of hyaluronic acid  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 84 GCAGTGGACATCACCAC 100  
 DB 17 GCAGTGGACGTCAACAC 1  
 RESULT 814  
 ADB43719/C  
 ID ADB43719 standard; DNA; 17 BP.  
 XX  
 AC ADB43719;  
 XX  
 DT 18-DEC-2003 (revised)  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Tumour suppression/reversion associated nucleotide #4042.  
 XX  
 KW cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;

KW diagnosis.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO2003040369-A2.  
 XX  
 PD 15-MAY-2003.  
 XX  
 PD 17-SEP-2002; 2002WO-IB004219.  
 PF  
 XX  
 PD 17-SEP-2001; 2001FR-00011981.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 XX Tellerman A, Amson R, Tuijnder M;  
 PI  
 XX WPI; 2003-441574/41.  
 DR  
 XX  
 XX New nucleic acid encoding human prostate membrane-specific antigen,  
 PT useful e.g. for treatment of tumors and viral infection, also related  
 PT polypeptide and antibodies.  
 PT  
 XX  
 PS Disclosure; Page 504; 771pp; French.  
 XX  
 XX The invention relates to the isolation of 6327 nucleotide sequences,  
 CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
 CC sequence having at least 80% identity, after optimal alignment, with the  
 CC nucleotides, a sequence that hybridizes under stringent conditions with  
 CC the nucleotides, or the complement, or corresponding RNA, of the  
 CC nucleotides. The nucleotides are used as probes or primers for detecting,  
 CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
 CC sense and antisense sequences, of nucleotides involved in tumour  
 CC suppression or reversion, apoptosis and or viral resistance, to produce  
 CC recombinant polypeptides, and to prepare transgenic animals, as  
 CC experimental models. The nucleotides (also vectors containing them and  
 CC cells containing the vectors), the encoded polypeptides and antibodies  
 CC (Ab) against the polypeptide are useful for prevention and/or treatment  
 CC of viral infections or diseases characterized by development of tumours  
 CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
 CC Analysis of the expression of the nucleotides can be used for diagnosis  
 CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
 CC also be used to screen for their specific interactive molecules,  
 CC potentially useful for treating diseases associated with abnormal  
 CC expression of the nucleotides.  
 XX  
 SQ Sequence 17 BP; 5 A; 4 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 17;  
 Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 400 AGGTCTTCTACGTGATC 416  
 DB 17 AGCTCTCTAGGTGATC 1  
 RESULT 815  
 ADC81646/C  
 ID ADC81646 standard; DNA; 17 BP.  
 XX  
 AC ADC81646;  
 XX  
 DT 01-JAN-2004 (first entry)  
 DT  
 DE  
 DE Leishmania elongation factor 1-alpha antisense PCR primer SEQ ID NO:20.  
 KW elongation factor 1-alpha; EF-1alpha; pathogen; antibacterial; virucide;  
 KW fungicide; protozoicide; ss; primer; PCR.  
 XX  
 OS Leishmania braziliensis.  
 XX  
 XX WO2003037926-A1.

```
PD 08-MAY-2003.
XX
PF 01-NOV-2002; 2002WO-CA001689.
XX
PR 01-NOV-2001; 2001CA-02360987.
PR 22-JAN-2002; 2002US-0349339P.
PR 22-JAN-2002; 2002US-0349337P.
PR 05-JUL-2002; 2002US-0393389P.
XX
XX (UYBR-) UNIV BRITISH COLUMBIA.
PA
PA Reiner NE, Tcherkassov A, Nandan D;
PI WPI; 2003-482124/45.
DR
XX
XX Testing of binding specificity of a compound to a conserved protein in a
PT pathogen useful in e.g. treatment of infectious diseases involves
PT comparing binding of the compound to the pathogen and host forms of the
PT protein.
XX
PS Example; SEQ ID NO 20; 64pp; English.
XX
XX The invention relates to a novel method for the testing of a compound for
CC specific binding to a conserved protein in a pathogen. The method
CC involves comparing binding of the compound to the pathogen and host forms
CC of the proteins comprise an insertion/deletion sequence (indel) not
CC present in the other forms of the pathogen and host. The binding to the
CC pathogen form and the absence of or reduced binding of the compound to
CC the host form indicates that the compound is capable of specific binding.
CC A compound of the invention has antibacterial, virucide, fungicide, and
CC protozoacide activity. The method is useful for testing a compound for
CC specific binding to a conserved protein in pathogens (e.g. virus,
CC bacteria, fungi, protozoa). The protein is conserved between a pathogen
CC and a host (e.g. plant or animal including mammal e.g. human). The
CC compound is useful as a diagnostic or therapeutic agent specific for the
CC pathogen form, for the preparation of a moiety for specific binding to
CC pathogen elongation factor 1-alpha, and for diagnosis and treatment of
CC infectious diseases (e.g. bacterial, viral, fungal and protozoal). The
CC present sequence is used in the exemplification of the invention.
XX
SQ Sequence 17 BP; 1 A; 7 C; 3 G; 6 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 26 CGAGGGCTGGGACGAG 42
DB 17 CGAGGGCTGGGACGAG 1
RESULT 816
ADD21033/c
ID ADD21033 standard; DNA; 17 BP.
XX
XX ADD21033;
XX
XX 15-JAN-2004 (first entry)
DT
DE Human GAP_N DNA 17-mer oligo #365.
XX
XX Gene therapy; antibody therapy; modulator of GAPN;
KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX
XX Homo sapiens.
OS
XX WO2003033703-A2.
PN
XX 24-APR-2003.
PD
XX 11-OCT-2002; 2002WO-US032597.
PF
XX 15-OCT-2001; 2001US-0330323P.
PR
XX (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
PA
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XX
PA (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
XX
XX Zhang J;
XX
XX WPI; 2003-403224/38.
XX
XX Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 289; 149pp; English.
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
CC like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
CC (I), a sequence in which at least 95% of deviations from (I) are
CC conservative substitutions, or a fragment of at least 8 contiguous amino
CC acids of (I). The polypeptide is useful for identifying a specific
CC binding partner for itself, by contacting the polypeptide in vivo to a
CC potential binding partner and determining if the polypeptide binding
CC partner binds to the polypeptide. (I) and a nucleic acid encoding the
CC polypeptide (II) are useful for diagnosing or monitoring a disease caused
CC by altered expression of GAPN, by determining the level of expression of
CC GAPN in a sample of nucleic acids or proteins that derives from a subject
CC suspected to have the disease, alterations from a normal level of
CC expression providing diagnostic and/or monitoring information. (I), (II)
CC or agonist of (I) is useful for treating or preventing a disorder
CC associated with decreased expression or activity of GAPN, and an
CC antagonist of (I) is useful for treating or preventing a disorder
CC associated with increased expression or activity of GAPN (all claimed).
CC (I) is useful as immunogen to raise antibodies that specifically
CC recognize GAPN proteins. (II) is useful to drive in vivo expression of
CC GAPN proteins, and as hybridization probes to detect, characterize and
CC quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
CC genomic and transcript-derived nucleic acid samples. This sequence
CC represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 2 A; 7 C; 7 G; 1 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 254 CTGCGGCACCGTGACCC 270
DB 17 CGCGGGCACCGTGCTCC 1
RESULT 817
ADD20883
ID ADD20883 standard; DNA; 17 BP.
XX
XX ADD20883;
XX
XX 15-JAN-2004 (first entry)
DT
DE Human GAP_N DNA 17-mer oligo #115.
XX
XX gene therapy; antibody therapy; modulator of GAPN;
KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX
XX Homo sapiens.
OS
XX WO2003033703-A2.
PN
XX 24-APR-2003.
PD
XX 11-OCT-2002; 2002WO-US032597.
PF
XX 15-OCT-2001; 2001US-0330323P.
PR
XX (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
PA
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XX Zhang J;  
XX WPI; 2003-403224/38.  
XX  
XX Novel human GTP-activator protein for Rab-like GTPase and polynucleotide  
XX encoding the protein, useful for diagnosing, treating or preventing  
XX disorders associated with increased expression or activity of the  
XX protein.  
XX  
XX Example 2; SEQ ID NO 139; 149pp; English.  
XX  
XX The invention relates to an isolated human GTP-activator protein for Rab-  
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to  
XX (I), a sequence in which at least 95% of deviations from (I) are  
XX conservative substitutions, or a fragment of at least 8 contiguous amino  
XX acids of (I). The polypeptide is useful for identifying a specific  
XX binding partner for itself, by contacting the polypeptide in vivo to a  
XX potential binding partner and determining if the polypeptide binding  
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the  
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused  
XX by altered expression of GAPN, by determining the level of expression of  
XX GAPN in a sample of nucleic acids or proteins that derives from a subject  
XX suspected to have the disease, alterations from a normal level of  
XX expression providing diagnostic and/or monitoring information. (I), (II)  
XX or agonist of (I) is useful for treating or preventing a disorder  
XX associated with decreased expression or activity of GAPN, and an  
XX antagonist of (I) is useful for treating or preventing a disorder  
XX associated with increased expression or activity of GAPN (all claimed).  
XX (I) is useful as immunogen to raise antibodies that specifically  
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of  
XX GAPN proteins, and as hybridization probes to detect, characterize and  
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both  
XX genomic and transcript-derived nucleic acid samples. This sequence  
XX represents a 17-mer oligonucleotide spanning the GAP\_N DNA sequence.  
XX  
XX Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;  
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 377 GGACCGGACGACGGCG 393  
Db 1 GGACTTCGACGACGGCG 17  
  
RESULT 818  
ADD20884  
ID ADD20884 standard; DNA; 17 BP.  
XX  
XX AC ADD20884;  
XX  
XX DT 15-JAN-2004 (first entry)  
XX  
XX DE Human GAP\_N DNA 17-mer oligo #116.  
XX  
XX KW Gene therapy; antibody therapy; modulator of GAPN;  
XX GW GTP-activator for Rab-like GTPase; GAP\_N; immunogen; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO2003033703-A2.  
XX  
XX PD 24-APR-2003.  
XX  
XX PF 11-OCT-2002; 2002WO-US032597.  
XX  
XX PR 15-OCT-2001; 2001US-0330323P.  
XX  
XX PA (AMSH ) AMERSHAM BIOSCIENCES SV CORP.  
XX  
XX PI Zhang J;  
XX  
XX WPI; 2003-403224/38.

XX WPI; 2003-403224/38.  
XX  
XX Novel human GTP-activator protein for Rab-like GTPase and polynucleotide  
XX encoding the protein, useful for diagnosing, treating or preventing  
XX disorders associated with increased expression or activity of the  
XX protein.  
XX  
XX Example 2; SEQ ID NO 140; 149pp; English.  
XX  
XX The invention relates to an isolated human GTP-activator protein for Rab-  
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to  
XX (I), a sequence in which at least 95% of deviations from (I) are  
XX conservative substitutions, or a fragment of at least 8 contiguous amino  
XX acids of (I). The polypeptide is useful for identifying a specific  
XX binding partner for itself, by contacting the polypeptide in vivo to a  
XX potential binding partner and determining if the polypeptide binding  
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the  
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused  
XX by altered expression of GAPN, by determining the level of expression of  
XX GAPN in a sample of nucleic acids or proteins that derives from a subject  
XX suspected to have the disease, alterations from a normal level of  
XX expression providing diagnostic and/or monitoring information. (I), (II)  
XX or agonist of (I) is useful for treating or preventing a disorder  
XX associated with decreased expression or activity of GAPN, and an  
XX antagonist of (I) is useful for treating or preventing a disorder  
XX associated with increased expression or activity of GAPN (all claimed).  
XX (I) is useful as immunogen to raise antibodies that specifically  
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of  
XX GAPN proteins, and as hybridization probes to detect, characterize and  
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both  
XX genomic and transcript-derived nucleic acid samples. This sequence  
XX represents a 17-mer oligonucleotide spanning the GAP\_N DNA sequence.  
XX  
XX Sequence 17 BP; 3 A; 7 C; 5 G; 2 T; 0 U; 0 Other;  
SQ Query Match 2.9%; Score 12.2; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 4.2e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 378 GACCGGACGACGGCG 394  
Db 1 GACTTCGACGACGGCG 17  
  
RESULT 819  
ADD21031/c  
ID ADD21031 standard; DNA; 17 BP.  
XX  
XX AC ADD21031;  
XX  
XX DT 15-JAN-2004 (first entry)  
XX  
XX DE Human GAP\_N DNA 17-mer oligo #263.  
XX  
XX KW Gene therapy; antibody therapy; modulator of GAPN;  
XX GW GTP-activator for Rab-like GTPase; GAP\_N; immunogen; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO2003033703-A2.  
XX  
XX PD 24-APR-2003.  
XX  
XX PF 11-OCT-2002; 2002WO-US032597.  
XX  
XX PR 15-OCT-2001; 2001US-0330323P.  
XX  
XX PA (AMSH ) AMERSHAM BIOSCIENCES SV CORP.  
XX  
XX PI Zhang J;  
XX  
XX WPI; 2003-403224/38.

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XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide
PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 287; 149pp; English.
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX (I), a sequence in which at least 95% of deviations from (I) are
XX conservative substitutions, or a fragment of at least 8 contiguous amino
XX acids of (I). The polypeptide is useful for identifying a specific
XX binding partner for itself, by contacting the polypeptide in vivo to a
XX potential binding partner and determining if the polypeptide binding
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX by altered expression of GAPN, by determining the level of expression of
XX GAPN in a sample of nucleic acids or proteins that derives from a subject
XX suspected to have the disease, alterations from a normal level of
XX expression providing diagnostic and/or monitoring information. (I), (II)
XX or agonist of (I) is useful for treating or preventing a disorder
XX associated with decreased expression or activity of GAPN, and an
XX antagonist of (I) is useful for treating or preventing a disorder
XX associated with increased expression or activity of GAPN (all claimed).
XX (I) is useful as immunogen to raise antibodies that specifically
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX GAPN proteins, and as hybridization probes to detect, characterize and
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX genomic and transcript-derived nucleic acid samples. This sequence
XX represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 2 A; 7 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 256 CGGCCACGGTGCTCCAG 272
DB 17 CGGCCACGGTGCTCCAG 1
RESULT 820
ADD20885
ID ADD20885 standard; DNA; 17 BP.
XX AC ADD20885;
XX AC ADD20885;
XX DT 15-JAN-2004 (first entry)
XX DE Human GAP_N DNA 17-mer oligo #117.
XX KW Gene therapy; antibody therapy; modulator of GAPN;
XX KW GTP-activator for Rab-like GTPase; GAP_N; immunogen; ss.
XX OS Homo sapiens.
XX PN WO200303703-A2.
XX PD 24-APR-2003.
XX PF 11-OCT-2002; 2002WO-US032597.
XX PR 15-OCT-2001; 2001US-0330323P.
XX PA (AMSH ) AMERSHAM BIOSCIENCES SV CORP.
XX PI Zhang J;
XX DR WPI; 2003-403224/38.
XX PT Novel human GTP-activator protein for Rab-like GTPase and polynucleotide

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PT encoding the protein, useful for diagnosing, treating or preventing
PT disorders associated with increased expression or activity of the
PT protein.
XX
XX Example 2; SEQ ID NO 141; 149pp; English.
XX
XX The invention relates to an isolated human GTP-activator protein for Rab-
XX like GTPase (GAPN) polypeptide (I), a sequence having 65% identity to
XX (I), a sequence in which at least 95% of deviations from (I) are
XX conservative substitutions, or a fragment of at least 8 contiguous amino
XX acids of (I). The polypeptide is useful for identifying a specific
XX binding partner for itself, by contacting the polypeptide in vivo to a
XX potential binding partner and determining if the polypeptide binding
XX partner binds to the polypeptide. (I) and a nucleic acid encoding the
XX polypeptide (II) are useful for diagnosing or monitoring a disease caused
XX by altered expression of GAPN, by determining the level of expression of
XX GAPN in a sample of nucleic acids or proteins that derives from a subject
XX suspected to have the disease, alterations from a normal level of
XX expression providing diagnostic and/or monitoring information. (I), (II)
XX or agonist of (I) is useful for treating or preventing a disorder
XX associated with decreased expression or activity of GAPN, and an
XX antagonist of (I) is useful for treating or preventing a disorder
XX associated with increased expression or activity of GAPN (all claimed).
XX (I) is useful as immunogen to raise antibodies that specifically
XX recognize GAPN proteins. (II) is useful to drive in vivo expression of
XX GAPN proteins, and as hybridization probes to detect, characterize and
XX quantify GAPN nucleic acids in and isolate GAPN nucleic acids from both
XX genomic and transcript-derived nucleic acid samples. This sequence
XX represents a 17-mer oligonucleotide spanning the GAP_N DNA sequence.
XX
SQ Sequence 17 BP; 3 A; 8 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 4.2e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 379 ACCGCGACGACGCGCC 395
DB 1 ACTTCGACGACGCGCC 17
RESULT 821
AAQ22266/c
ID AAQ22266 standard; DNA; 18 BP.
XX AC AAQ22266;
XX DT 20-JUL-1992 (first entry)
XX DE Methylphosphonate oligomer #0059 complementary to HSV-1 polyA signal.
XX KW Herpes Simplex Virus; type 1; beta-gene; UL5; DNA dependent ATPase; ss.
XX OS Synthetic.
XX PN WO9203051-A.
XX PD 05-MAR-1992.
XX PF 15-AUG-1990; 90US-00568501.
XX PR 15-AUG-1990; 90US-00568501.
XX PA (GENT-) GENTA INC.
XX PI Roizman B, Maxwell KW;
XX DR WPI; 1992-096516/12.
XX PT New oligomers complementary to viral genome(s) or mRNA transcripts -
XX PT areanti-sense agents which interfere with viral replication of e.g.
XX PT Herpes simplex virus, Epstein-Barr virus etc.
XX

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ID XX AAT05082 standard; DNA; 18 BP.
AC XX AAT05082;
XX XX
DT DT 25-MAR-2003 (revised)
XX XX 26-FEB-1996 (first entry)
XX XX
DE DE HLA-A1 PCR primer (sense, exon 2).
XX XX
KW KW MAGE; tumour rejection antigen; cancer; diagnosis;
KW KW polymerase chain reaction; PCR; primer; HLA-A1; ss.
XX XX
OS OS Synthetic.
XX XX
PN PN WO9523874-A1.
XX XX
PD PD 08-SEP-1995.
XX XX
PF PF 23-FEB-1995; 95WO-US0002203.
XX XX
PR PR 01-MAR-1994; 94US-00204727.
PR PR 10-MAR-1994; 94US-00209172.
PR PR 01-SEP-1994; 94US-00298849.
PR PR 30-NOV-1994; 94US-00346774.
XX XX
PA (LUDW-) LUDWIG INST CANCER RES.
XX XX
PI De Plaen E, Boon-Falleur T, Lethe B, Szikora J, De Smet C;
PI Chomez P, Gaugler B, Van Den Eynde B, Brasseur F, Patard J;
PI Weynants P, Marchand M, Van Der Bruggen P;
XX XX
DR WFI; 1995-320586/41.
XX XX
PT Determn. of cancerous condition(s) - using a nucleic acid as a primer to
PT determine expression of a MAGE tumour rejection antigen precursor.
XX XX
PS Claim 9; Page 91; 121pp; English.
XX XX
CC A PCR primer pair (AAT05082-83) correspond to a sense sequence in exon 2
CC of HLA-A1 antigen and an antisense sequence in exon 3, respectively. The
CC primers were used in PCR and RT-PCR with tumour rejection antigen
CC precursor MAGE gene-based primers to detect MAGE gene expression in
CC tumours and normal tissues. (Updated on 25-MAR-2003 to correct PI field.)
XX XX
SQ Sequence 18 BP; 4 A; 6 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 295 TGRAGGACCTGAGGCC 311
DB 1 TGRAGGACCTGAGGCC 17

RESULT 825
AAT94827
ID AAT94827 standard; DNA; 18 BP.
XX XX
AC AAT94827;
XX XX
DT 19-FEB-1998 (first entry)
XX XX
DE Human leukocyte antigen class I gene URSTO probe 454-471.
XX XX
KW Human leukocyte antigen; HLA; probe; tissue transplantation; MHC gene;
KW major histocompatibility complex; paternity test; forensic medicine;
KW haematological malignancy; inherited disorder; adoptive immunotherapy;
KW identification; ss.
XX XX
OS Synthetic.
OS OS Homo sapiens.
PN PN

PN WO9720197-A2.
XX XX
PD 05-JUN-1997.
XX XX
PF 29-NOV-1996; 96WO-GB002959.
XX XX
PR 29-NOV-1995; 95GB-00024381.
XX XX
PA (NOLA-) NOLAN BONE MARROW TRUST ANTHONY.
XX XX
PI Arguello R, Avakian H, Madrigal A;
XX XX
DR WPI; 1997-310717/28.
XX XX
PT Identifying unknown allele(s) of a polyallelic gene using panel of
PT probes each recognising a sequence motif present in some allele(s) -
PT useful for donor matching in tissue transplantation.
XX XX
PS Claim 5; Page 19; 64pp; English.
XX XX
CC A novel method has been developed for identifying an unknown allele of a
CC polyallelic gene. The method involves: (a) contacting the unknown allele
CC with a panel of probes, each of which recognises a sequence motif that is
CC present in some alleles of the polyallelic gene but not in others; (b)
CC observing which probes recognise the unknown allele so as to obtain a
CC fingerprint of the unknown allele; and (c) comparing the fingerprint with
CC fingerprints of known alleles. The present sequence represents a
CC specifically claimed probe for use in the method where the polyallelic
CC gene is a human leukocyte antigen class I gene. The method can be used
CC for genes such as mammalian MHC genes, specifically the HLA class I and
CC II genes, the T cell receptor genes in mammals, TAP, LMP, ras,
CC nonclassical HLA class I genes, human complement factor genes C4 and C2,
CC Bf in the HLA complex, and genes located in mitochondrial DNA, bacterial
CC chromosomes and viral DNA. The method is particularly useful for matching
CC the alleles of the HLA genes in a prospective donor and a prospective
CC recipient in tissue or organ transplantations. The method can also be
CC used in paternity testing, in forensic medicine, as a follow up technique
CC in treatment of haematological malignancies or inherited disorders, in
CC adoptive immunotherapy and in identification of bacteria and viruses.
CC The method can provide for the identification of alleles of the
CC polyallelic genes using a limited number of selected recurring motif
CC probes
XX XX
SQ Sequence 18 BP; 2 A; 6 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 298 AGGACCTGAGCCCCGGG 314
DB 2 AGGACCTGAGCCCCGGG 18

RESULT 826
AAAX75558
ID AAAX75558 standard; RNA; 18 BP.
XX XX
AC AAAX75558;
XX XX
DT 28-JUL-1999 (first entry)
XX XX
DE Mouse flt-1 VEGF receptor hairpin ribozyme substrate #17.
XX XX
KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
KW XDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
KW foetal liver kinase 1; ss.
XX XX
OS Mus sp.
XX XX
PN WO9715662-A2.

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XX 01-MAY-1997.  
XX 25-OCT-1996; 96WO-US017480.  
XX 26-OCT-1995; 95US-0005974P.  
XX 11-JAN-1996; 96US-00584040.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (CHIR) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
XX stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
XX rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 185; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
XX synthesis, expression and/or stability of a mRNA encoding 1 or more  
XX receptors of vascular endothelial growth factor (VEGF). A patient  
XX (preferably human) having a condition associated with the level of the  
XX fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
XX receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
XX angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
XX treated by administering the nucleic acid molecule or the expression  
XX vector to the patient. AAX6275 to AAX7572 represent specific examples  
XX of nucleic acid molecules from the present invention  
XX Sequence 18 BP; 3 A; 6 C; 6 G; 0 T; 3 U; 0 Other;  
SQ

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 70.6%; Pred. No. 4.7e+02;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
QY 238 GAGGCTGCTCCCGGCGC 254  
DB 2 GAGACUGCUGCCACGGGC 18

RESULT 827  
AAX62760  
ID AAX62760 standard; RNA; 18 BP.  
XX AAX62760;  
XX 16-JUL-1999 (first entry)  
DE Granule bound starch synthase hairpin substrate SEQ ID NO:635.  
XX Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;  
XX granule bound starch synthase; hammerhead ribozyme; hairpin ribozyme;  
XX modulation; gene expression; transgenic plant; cleavage; canola plant;  
XX caffeine synthesis; coffee plant; nicotine production; tobacco;  
XX fruit ripening; flower pigmentation; lignin production; ss.  
XX Zea mays.  
XX WO9710328-A2.  
XX 20-MAR-1997.  
XX 12-JUL-1996; 96WO-US011689.  
XX 13-JUL-1995; 95US-0001135P.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (DOWC) DOWELANCO.  
XX Zwick MG, Edington BE, Mcswiggen JA, Merlo PAO, Guo L, Skokut TA;  
PI

PI Young SA, Folkerts O, Merlo DJ;  
XX WPI; 1997-202224/18.  
XX Ribozyme which modulates plant gene expression - preferably modulates  
XX expression of DELTA-9 desaturase or granule bound starch synthase in  
XX maize or canola.  
XX Claim 42; Page 84; 155pp; English.  
XX The present invention describes an enzymatic nucleic acid molecule (I)  
XX with RNA cleaving activity, which modulates the expression of a plant  
XX gene. Also described is a gene comprising a cDNA sequence encoding maize  
XX Delta-9 desaturase. (I) can be used to modulate expression of a gene,  
XX preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)  
XX gene, in a plant (preferably a maize or canola plant). (I) can be used to  
XX modulate caffeine synthesis in a coffee plant, nicotine production in a  
XX tobacco plant, fruit ripening processes in an apple, tomato, pear, plum  
XX or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or  
XX marigold plant or lignin production in a tobacco, aspen, poplar or pine  
XX plant  
XX Sequence 18 BP; 2 A; 6 C; 7 G; 0 T; 3 U; 0 Other;  
SQ

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 70.6%; Pred. No. 4.7e+02;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
QY 121 AGTACGGCATGCTGGCC 137  
DB 2 AGTUCGGCCUGCAGGCC 18

RESULT 828  
AAV60768  
ID AAV60768 standard; DNA; 18 BP.  
XX AAV60768;  
XX 25-MAR-2003 (revised)  
XX 08-DEC-1998 (first entry)  
XX HIV-1 strain YBF30 gag gene primer GAG Y S1.1.  
XX HIV-1 strain YBF30; antibody; oligonucleotide; diagnosis; immunisation;  
XX infection; typing; gag; PCR primer; amplification; ss.  
XX Synthetic.  
XX Human immunodeficiency virus 1.  
XX FR2756843-A1.  
XX 12-JUN-1998.  
XX 09-DEC-1996; 96FR-00015087.  
XX 09-DEC-1996; 96FR-00015087.  
XX (INRM) INSERM INST NAT SANTE & RECH MEDICALE.  
XX (ASSI-) ASSISTANCE PUBLIQUE HOPITAUX PARIS.  
XX (INSP) INST PASTEUR.  
XX Mauciere P, Lousseert AI, Simon F, Saragosti S, Barre SF;  
XX WPI; 1998-336114/30.  
XX Non-M, non-O HIV-1 strain YBF30 - useful for diagnosis and immunisation.  
XX Claim 3; Fig 1; 85pp; French.  
XX This sequence represents a primer targeted to the gag gene of the non-M  
XX (major), non-O (Outlier) HIV-1 strain YBF30 (CNCM I-1753), isolated from  
XX the Cameroon. The HIV strain (see AAV60751 for complete genome),  
XX

CC peptides, antibodies and oligonucleotides derived from it (see AAV60752-  
CC V60798 and AAV68473-W68482) are used for diagnosis of or immunisation  
CC against non-M, non-O HIV-1 infections. The oligonucleotides, peptides and  
CC antibodies can also be used for typing HIV strains. (Updated on 25-MAR-  
CC 2003 to correct PI field.)  
XX  
SQ Sequence 18 BP; 6 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 55 CAGAGGAGTCTCTGCAC 71  
DB 2 CAGAGACTCTCTGTAC 18

RESULT 829  
AAV34526/c  
ID AAV34526 standard; DNA; 18 BP.

XX AAV34526;  
XX  
DT 20-AUG-1998 (first entry)  
XX Chemokine receptor CXCR4 amplifying RT-PCR primer 2.  
DE Chemokine receptor; gp120; fusion protein; HIV; screening; AIDS;  
XX CD4 binding site; RT-PCR primer; ss.  
KW  
KW  
XX Synthetic.  
OS Homo sapiens.  
OS  
PN WO9815569-A1.  
XX  
PD 16-APR-1998.  
XX

PF 08-OCT-1997; 97WO-US018397.  
XX

PR 09-OCT-1996; 96US-0027931P.  
XX

XX (DAND ) DANA FARBER CANCER INST INC.  
PA (LEUK-) LEUKOSITE INC.  
PA (CHIL-) CHILDRENS MEDICAL CENT.  
XX

PI Sodroski J, Newman W, Wu L, Gerard N, Gerard C;  
XX WPI; 1998-240778/21.  
XX

XX Derivatives of gp120 containing modified chemokine receptor binding site  
PT - and complexes with soluble CD40, for inhibiting infectivity of human  
PT immune deficiency virus and to screen for inhibitors.  
XX  
PS Example; Page 53; 92pp; English.

XX This primer is used for the RT-PCR amplification of a chemokine receptor  
CC CXCR4. The invention provides gp120 derivative having a conformational,  
CC discontinuous chemokine receptor binding site defined by amino acids  
CC residues present in the gp120 constant regions C2, C3 and C4, and the  
CC variable region V3, and its conformation is similar to that of the  
CC receptor binding site of wild-type gp120 complexed to CD4. Exposure of  
CC the chemokine receptor binding site is increased by having at least part  
CC of a variable or constant region of wild-type gp120 removed. A stabilised  
CC complex of gp120 CD4 binding site with a soluble CD4 molecule is used to  
CC inhibit infectivity of human immune deficiency virus (HIV). Labelled  
CC gp120 derivatives are also used to screen for inhibitors of HIV  
CC infectivity. The gp120 derivatives are used for diagnosing susceptibility  
CC to HIV infection from increased levels of the chemokine receptors (at the  
CC protein or nucleic acid levels). Transgenic animals expressing CD4 and  
CC chemokine receptor are used as models for studying development of AIDS or  
CC effect/safety of therapeutic agents

XX Sequence 18 BP; 4 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 343 GCCGGCTGCTCTACAGC 359  
DB 17 GCTGGCTGGCTTACAC 1

RESULT 830  
AAV46248/c  
ID AAV46248 standard; DNA; 18 BP.

XX AAV46248;  
XX  
DT 16-OCT-1998 (first entry)  
XX Human HLA-A primer #152.  
DE  
XX Histocompatibility locus antigen; HLA-A class I; human; class typing;  
KW donor; host; tissue transplantation; primer; ss.  
KW  
XX Synthetic.  
OS Homo sapiens.  
OS  
PN WO9826091-A2.  
XX  
PD 18-JUN-1998.  
XX

PF 12-DEC-1997; 97WO-CA000955.  
XX

PR 12-DEC-1996; 96US-00766189.  
XX

XX (VISI-) VISIBLE GENETICS INC.  
PA

PI Blaszczak RH, Leushner J;  
XX

DR WPI; 1998-348544/30.  
XX

PT HLA Class I typing - by primer-based amplification of target DNA using  
PT group-specific untranslated region primer pair.

XX Claim 8; Page 138; 185pp; English.

XX AAV46054 and AAV46200-V46264 are primers used in isolating human  
CC histocompatibility locus antigen (HLA-A) Class I alleles which are used  
CC in a novel method of HLA Class I typing. The method involves combining a  
CC group-specific untranslated region primer pair with a target DNA to allow  
CC primer-based amplification of the DNA, and determining whether a nucleic  
CC acid product is produced by the amplification. The ability of the primer  
CC pair to produce a product is associated with a particular HLA group type.  
CC The methods can be used for typing the 3 classical HLA class I genes  
CC (comprising the loci HLA-A, HLA-B, and HLA-C) in e.g. donors and hosts  
CC for tissue transplantation. The initial group specific amplification  
CC allows a PCR based separation of haplotypes in 95% of patient samples.  
CC The subsequent sequencing can provide for high-resolution typing

XX Sequence 18 BP; 1 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAAGCTCGGTGGCGGCC 230  
DB 18 ACAAGTGGAGGCGGCC 2

RESULT 831  
AAV39316/c  
ID AAV39316 standard; cDNA; 18 BP.

AAV39316;  
 16-SEP-1998 (first entry)  
 Human RAD54 mutation detecting PCR primer SEQ ID NO:24.  
 Human; RAD54; cancer; xeroderma pigmentosum; Bloom syndrome; Werner's syndrome; ATR-X; diagnosis; detection; SNF2 superfamily; X-linked mental retardation with alpha-thalassemia syndrome; tumour; gene therapy; PCR primer; ss.  
 Synthetic.  
 Homo sapiens.  
 EP844305-A2.  
 27-MAY-1998.  
 10-NOV-1997; 97EP-00308998.  
 13-NOV-1996; 96US-0030676P.  
 (SMIK) SMITHKLINE BEECHAM CORP.  
 (UYJE-) UNIV JEFFERSON THOMAS.  
 Croce CM, Fishel RA, Rasio D, Robbins DJ;  
 WPT; 1998-274189/25.  
 Human hRAD54 DNA and polypeptide - and agonists, antibodies, antagonists, etc.  
 Claim 18; Page 39; 64pp; English.  
 The present sequence represents a PCR primer for use in a method of the invention for determining the genetic predisposition to cancer in an individual by detecting hRAD54 mutations in a sample. hRAD54 is a gene thought to be present in tumours that display allelic imbalance at 1p32, the chromosomal band identified as one of four minimal regions of chromosome 1 deletion in breast carcinomas. hRAD54 is useful for production of proteins, inter alia, that have been identified as novel hRAD54 by homology between the amino acid sequence given in AAV62186 and known amino acid sequences such as yeast RAD54. hRAD54 proteins are used in the treatment of cancer, including Xeroderma Pigmentosum and Bloom syndrome, Werner's syndrome and X-linked mental retardation with alpha-thalassemia syndrome and breast cancer. hRAD54 polynucleotides are also useful for detecting complementary nucleotides for use as a diagnostic agent, especially useful for diagnosis of disease or susceptibility to diseases. hRAD54 polynucleotide, proteins, agonists and antagonists which are proteins are useful in gene therapy

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 286 CCAGCTGCTGAAGAAC 302  
 DB 18 CCAGCTGCTGAAGAAC 2

RESULT 832  
 AAV60916/c  
 ID AAV60916 standard; DNA; 18 BP.  
 AC AAV60916;  
 XX 11-JAN-1999 (first entry)  
 DE Angiogenin antisense oligonucleotide JF12S.  
 XX Angiogenin; antisense; inhibitor; cancer; metastasis; angiogenesis;  
 KW

therapy; diagnosis; ss.  
 Synthetic.  
 Key Location/Qualifiers  
 modified\_base 1..18  
 /tag= a  
 /note= "phosphorothioate linkages"  
 PN WO9842722-A1.  
 PD 01-OCT-1998.  
 PP 20-MAR-1998; 98WO-US005651.  
 PR 21-MAR-1997; 97US-0041182P.  
 XX (HARD) HARVARD COLLEGE.  
 PA Pett JW, Olson KA;  
 PI WPI; 1998-531944/45.  
 DR New oligonucleotide(s) that inhibit expression of angiogenin - for treatment of tumours and metastases, or other conditions involving abnormal angiogenesis.  
 PS Claim 10; Page 38; 71pp; English.  
 CC Antisense phosphorothioate oligonucleotide JF10S encompasses the AUG initiation codon of the human angiogenin gene (see AAV60918). JF2S, and other claimed antisense oligonucleotides (see AAV60911-17) with base sequences complementary to a target region of the angiogenin gene, are able to inhibit expression of angiogenin. They are used in claimed methods to decrease production of angiogenin, particularly to reduce the size of tumours associated with angiogenesis, to inhibit metastases, establishment of tumour cells or growth of tumours and, when labelled, to detect angiogenin for diagnosis of conditions associated with abnormal angiogenesis. They can also be used to treat a wide range of non-cancer conditions that involve angiogenesis, e.g. age-related macular degeneration, diabetic retinopathy, bacterial or fungal ulcers, rheumatoid arthritis, Paget's disease, Crohn's disease, haemangioma and many others listed

Sequence 18 BP; 4 A; 9 C; 3 G; 2 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 292 TCGTGAGGACCTGAGC 308  
 DB 17 TCGTGATGGCCTGGGC 1

RESULT 833  
 AAZ11707/c  
 ID AAZ11707 standard; RNA; 18 BP.  
 XX AAZ11707;  
 AC AAZ11707;  
 XX 02-NOV-1999 (first entry)  
 DE Hepatitis C virus antisense DNA 25 - binds to HCV genome bases 330-347.  
 XX Antisense; oligonucleotide; hepatitis C virus; antiviral therapy;  
 KW detection; diagnosis; treatment; translation inhibition;  
 XX replication inhibition; transcription inhibition; ss.  
 OS Synthetic.  
 OS Hepatitis C virus.  
 XX WO9929350-A1.

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XX 17-JUN-1999.
PD
XX
PD
XX
PF 08-DEC-1998; 98WO-US026040.
XX
XX
PR 10-DEC-1997; 97US-00988321.
XX
XX
PA (ISIS-) ISIS PHARM INC.
PI
PI Anderson KP, Hanecak RC, Nozaki C;
XX
XX
DR WPI; 1999-493767/41.
XX
XX
PT New antisense oligonucleotides for treatment of Hepatitis C virus
PT infections.
XX
XX
PS Example 3; Page 35; 61pp; English.
XX
XX
CC This sequence represents a specific example of an antisense
CC oligonucleotide designed to be capable of hybridising to HCV genomic RNA.
CC These oligonucleotides (AAZ08988-209005 and AAZ11701-211719) are 10-20
CC bases long and are targeted to stretches of viral genome which include
CC the polyprotein translation initiation codon. They inhibit the function
CC of viral RNA by interfering with its replication, transcription into
CC mRNA, translation into protein and packaging into viral particles,
CC resulting in failure of all or a portion of the normal life cycle of the
CC virus. In vivo studies in a murine model have found that a preferred
CC antisense oligonucleotide, AAZ08993, is able to reduce HCV gene
CC expression by around 50% compared with a control oligonucleotide
CC (AAZ11718). The oligonucleotides are useful for the prevention and/or
CC treatment of hepatitis C-associated disease. Oligonucleotides are also
CC useful for detection and diagnosis of hepatitis C virus-associated
CC diseases. The specificity of the oligonucleotides enables more effective
CC prevention and treatment of HCV-associated diseases. They can also be
CC used to differentiate between HCV-derived hepatitis and hepatitis caused
CC by other agents
XX
SQ Sequence 18 BP; 2 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 18 ACCGTGCACCATGAGCA 2
RESULT 834
AAZ11716/c
ID AAZ11716 standard; RNA; 18 BP.
XX
XX
AC AAZ11716;
XX
XX
DT 02-NOV-1999 (first entry)
XX
DE Hepatitis C virus antisense DNA 34 - binds to HCV genome bases 331-348.
XX
KW Antisense; oligonucleotide; hepatitis C virus; antiviral therapy;
KW detection; diagnosis; treatment; translation inhibition;
KW replication inhibition; transcription inhibition; ss.
XX
XX
OS Synthetic.
OS Hepatitis C virus.
XX
XX
PN WO9929350-A1.
XX
XX
PD 17-JUN-1999.
XX
XX
PF 08-DEC-1998; 98WO-US026040.
XX
XX
PR 10-DEC-1997; 97US-00988321.
XX
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PA (ISIS-) ISIS PHARM INC.
XX
XX
PI Anderson KP, Hanecak RC, Nozaki C;
XX
XX
DR WPI; 1999-493767/41.
XX
XX
PT New antisense oligonucleotides for treatment of Hepatitis C virus
PT infections.
XX
XX
PS Example 3; Page 35; 61pp; English.
XX
XX
CC This sequence represents a specific example of an antisense
CC oligonucleotide designed to be capable of hybridising to HCV genomic RNA.
CC These oligonucleotides (AAZ08988-209005 and AAZ11701-211719) are 10-20
CC bases long and are targeted to stretches of viral genome which include
CC the polyprotein translation initiation codon. They inhibit the function
CC of viral RNA by interfering with its replication, transcription into
CC mRNA, translation into protein and packaging into viral particles,
CC resulting in failure of all or a portion of the normal life cycle of the
CC virus. In vivo studies in a murine model have found that a preferred
CC antisense oligonucleotide, AAZ08993, is able to reduce HCV gene
CC expression by around 50% compared with a control oligonucleotide
CC (AAZ11718). The oligonucleotides are useful for the prevention and/or
CC treatment of hepatitis C-associated disease. Oligonucleotides are also
CC useful for detection and diagnosis of hepatitis C virus-associated
CC diseases. The specificity of the oligonucleotides enables more effective
CC prevention and treatment of HCV-associated diseases. They can also be
CC used to differentiate between HCV-derived hepatitis and hepatitis caused
CC by other agents
XX
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 261 ACGGTGCACCTGGAGCA 277
DB 17 ACCGTGCACCATGAGCA 1
RESULT 835
AAZ34321/c
ID AAZ34321 standard; DNA; 18 BP.
XX
XX
AC AAZ34321;
XX
XX
DT 07-DEC-1999 (first entry)
XX
DE Human PRO298 PCR forward primer 3.
XX
XX
KW Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
KW secreted protein; transmembrane protein; ss.
XX
XX
OS Synthetic.
OS Homo sapiens.
XX
XX
PN WO9946281-A2.
XX
XX
PD 16-SEP-1999.
XX
XX
PF 08-MAR-1999; 99WO-US005028.
XX
XX
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
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PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 23-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082566P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082767P.
PR 23-APR-1998; 98US-0082796P.
PR 27-APR-1998; 98US-0083336P.
PR 28-APR-1998; 98US-0083342P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084419P.
PR 07-MAY-1998; 98US-0084596P.
PR 07-MAY-1998; 98US-0084600P.
PR 07-MAY-1998; 98US-0084627P.
PR 07-MAY-1998; 98US-0084637P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 13-MAY-1998; 98US-0085343P.
PR 13-MAY-1998; 98US-0085338P.
PR 13-MAY-1998; 98US-0085339P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085589P.
PR 15-MAY-1998; 98US-0085697P.
PR 15-MAY-1998; 98US-0085700P.
PR 15-MAY-1998; 98US-0085704P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086414P.
PR 22-MAY-1998; 98US-0086430P.

PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
XX (GETH ) GENENTECH INC.
XX Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
XX WPI; 1999-551358/46.
XX New secreted and transmembrane polypeptides and their polynucleotides,
XX useful for treating blood coagulation disorders, cancers and cellular
XX adhesion disorders.
XX Example 95; Page 257; 530pp; English.
XX The present invention describes secreted and transmembrane polypeptides
XX and their polynucleotides. The nucleotide sequences are useful as sources
XX of probes, primers, for chromosome mapping, and for generation of
XX antisense sequences. They can also be used to create transgenic animals.
XX The proteins can be used to treat a variety of diseases and disorders.
XX depending on their function. Diseases that may be treated include blood
XX coagulation disorders, cancers and cellular adhesion disorders. They may
XX also be used to raise antibodies. AAZ3891 to AAZ34338, and AAY41685 to
XX AAY41774 represent polynucleotide and polypeptide sequence given in the
XX exemplification of the present invention
XX Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGGCTTCGACT 165
DB 17 GGAGTGCAGTTCCTACT 1

RESULT 836
AAZ26293
ID AAZ26293 standard; DNA; 18 BP.
XX AAZ26293;
AC AAZ26293;
XX 26-MAY-1999 (first entry)
XX Human PDE1B1 specific sense primer.
XX Antisense oligodeoxynucleotide; phosphodiesterase; PDE1B1; enzyme; PDE;
XX cell death; apoptosis; cancer; Ca2+-calmodulin; lymphoblastoid; RNase H;
XX RPMI 8392; RNA degradation; cAMP; immunoproliferative disorder; breast;
XX immune dysfunction; acute lympholytic leukemia; prostate; PCR primer; ss.
XX Synthetic.
OS Homo sapiens.
XX US5885834-A.
XX 23-MAR-1999.
XX 30-SEP-1997; 97US-00940332.
XX 30-SEP-1996; 96US-0027207P.
XX (EPST/) EPSTEIN P M.
PI Epstein PM;
XX WPI; 1999-228548/19.
XX
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PT Antisense oligodeoxynucleotides specific for mRNA encoding  
PT phosphodiesterase PDE1B1 enzymes and method for using them to induce  
PT apoptosis of cells - useful in the treatment of immunoproliferative  
PT disorders and immune dysfunctions.  
XX  
PS Disclosure; Col 15; 35pp; English.  
XX  
CC The invention relates to antisense oligodeoxynucleotides (AS-ODN) which  
CC will bind to mRNA encoding phosphodiesterase PDE1B1 enzymes and their use  
CC in inducing programmed cell death (apoptosis) in cancer cells. PDE1B1 is a  
CC Ca2+-calmodulin dependent phosphodiesterase found in cytosolic extracts  
CC of human lymphoblastoid cell line, RPMI 8392. The method in which  
CC programmed cell death is induced in cancer cells comprises: (i)  
CC identifying the phosphodiesterase enzyme PDE1B1 in a cell line containing  
CC the cancer cells; (2) synthesizing an AS-ODN inhibitor which will bind to  
CC mRNA encoding PDE1B1; and (3) applying the AS-ODN to the cell line to  
CC inhibit the enzymatic activity of the PDE1B1 and induce apoptosis in the  
CC cells. The AS-ODNs inhibit the expression of a protein by two mechanisms:  
CC (i) by degradation of RNA by the ubiquitous enzyme RNase H, which  
CC selectively cleaves the RNA of DNA-RNA heteroduplexes; and (ii) the  
CC arrest of translation initiation caused by AS-ODN hybridization to the 5'  
CC un-translated region or the translation initiation site on the mRNA.  
CC Inhibition of phosphodiesterase (PDE) enzyme expression results in  
CC elevated levels of cAMP in the cells due to PDE1B1 being involved in the  
CC metabolism of cAMP. The elevated cAMP levels result in apoptosis by  
CC inhibition of DNA synthesis. The method and AS-ODN are useful in inducing  
CC cAMP stimulated apoptosis and in the treatment of immunoproliferative  
CC disorders and immune dysfunctions such as acute lympholytic leukemia,  
CC breast and prostate cancer  
XX  
SQ Sequence 18 BP; 3 A; 5 C; 7 G; 3 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 122 GTACGGCAGTCTGCGCC 138  
DB 1 GTATGGCAGGATGCGCC 17  
  
RESULT 837  
AAAX86200/c  
ID AAAX86200 standard; DNA; 18 BP.  
AC AAAX86200;  
AT 22-SEP-1999 (first entry)  
DE PCR primer used to amplify the PIG3 gene.  
XX  
XX p53 transcription tag; p53 status; cancer; cytotoxicity; carcinogenicity;  
KW neoplastic; p53 binding site; PIG-3 promoter; PCR primer; ss.  
XX  
XX Synthetic.  
OS Homo sapiens.  
XX WO9914356-A2.  
XX 25-MAR-1999.  
XX  
XX 17-SEP-1998; 98WO-US019300.  
XX  
XX 17-SEP-1997; 97US-0059153P.  
PR 30-MAR-1998; 98US-0079817P.  
XX  
XX (UJVO ) UNIV JOHNS HOPKINS.  
PA  
XX Vogelstein B, Kinzler KW, Polyak K;  
XX  
XX WPI; 1999-443793/37.  
XX  
XX Use of p53 transcription tags to determine p53 status in, e.g. cancer  
PT

PT diagnosis.  
XX  
PS Disclosure; Page 14; 73pp; English.  
XX  
CC The specification describes the use of p53 transcription tags for  
CC developing products to determine p53 status, to diagnose cancer and to  
CC evaluate cytotoxicity or carcinogenicity of a test agent. A method for  
CC diagnosing cancer or determining p53 status in a sample suspected for  
CC being neoplastic comprises comparing the level of transcription of an RNA  
CC transcript in a first sample (s1) of a first tissue (t1) to the level of  
CC transcription of the transcript in a second sample (s2) of a second  
CC tissue (s2), where s1 is suspected of being neoplastic and s2 is a normal  
CC human tissue (of the same type) and the transcript is identified by a tag  
CC ; and categorizing s1 as neoplastic or as having a mutant p53 when a tag  
CC transcription is found to be the same or lower in the first, than in s2.  
CC The methods and products can be used to determine p53 status, to diagnose  
CC cancer and to evaluate cytotoxicity or carcinogenicity of a test agent.  
CC PCR primers AAX86199-200 were used to amplify the PIG3 gene, in the  
CC course of the invention  
XX  
SQ Sequence 18 BP; 1 A; 7 C; 7 G; 3 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 328 CGCGGCGACGACCGGGC 344  
DB 17 CCGCGGCGACGACCGGGC 1  
  
RESULT 838  
AAAX38073/c  
ID AAAX38073 standard; DNA; 18 BP.  
XX  
AC AAAX38073;  
AT 04-JUN-1999 (first entry)  
DE HLA-A specific exon region primer SEQ ID NO:229.  
XX  
XX Human; histocompatibility locus antigen; HLA; determination; allele;  
KW HLA-B typing; PCR; HLA class I; cis/trans linkage resolution; ss.  
XX  
XX Synthetic.  
OS Homo sapiens.  
XX WO9907883-A1.  
XX 18-FEB-1999.  
XX  
XX 11-AUG-1998; 98WO-CA000768.  
XX  
XX 11-AUG-1997; 97US-00909290.  
XX  
XX (VISI-) VISIBLE GENETICS INC.  
PA (BLAS/) BLASZYK R H.  
XX  
XX Blasczyk RH, Leushner J;  
XX WPI; 1999-167446/14.  
XX  
XX Determination of HLA class I group type of a subject - using group  
PT specific untranslated region primer pair.  
XX  
XX Example; Page 21; 195pp; English.  
XX  
CC The present invention describes a method using novel primers involving  
CC the PCR-based determination of histocompatibility locus antigen B (HLA-B)  
CC Class I group type. Determining the HLA-B class I group type of a subject  
CC comprises: (i) combining a group-specific untranslated region primer pair  
CC with a target DNA sample from the subject under conditions such that  
CC primer-based amplification of the target DNA may occur; and (ii)

CC determining whether a nucleic acid product is produced by the  
 CC amplification; where the ability of the primer pair to produce a nucleic  
 CC acid product is associated with a particular HLA group type. The method  
 CC can be used for HLA-B typing. In the method, the initial group specific  
 CC amplification allows a PCR based separation of haplotypes in 95% of  
 CC patient samples. It permits the resolution of cis/trans linkages of  
 CC heterozygote sequencing results which cannot be achieved with other  
 CC protocols. AAX37845 to AAX38286 represent DNA sequence used in the  
 CC exemplification of the present invention

XX  
 SQ Sequence 18 BP; 1 A; 7 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 214 AGAACTCGGTGGCGGCC 230  
 DB 18 ACRACCTGGAGCGGCC 2

RESULT 839  
 AAA55505  
 ID AAA55505 standard; DNA; 18 BP.  
 AC AAA55505;  
 XX  
 DT 30-AUG-2000 (first entry)  
 XX  
 DE TRAF1 antisense oligonucleotide ISIS# 26707.  
 XX  
 KW Tumour necrosis factor receptor-associated factor; TRAF; human;  
 KW antisense oligonucleotide; phosphorothioate; antiproliferative;  
 KW anti-inflammatory; E-selectin; Jun kinase; ss.  
 XX  
 OS Synthetic.  
 XX  
 FN WO200020435-A1.  
 XX  
 PD 13-APR-2000.  
 XX  
 PF 05-OCT-1999; 99WO-US023171.  
 XX  
 PR 06-OCT-1998; 98US-00167109.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Baker BF, Cowser LM, Monia BP, Xu XS;  
 XX  
 DR WPI; 2000-303732/26.  
 XX  
 PT Antisense oligonucleotides targeted to nucleic acids encoding human tumor  
 PT necrosis factor receptor-associated factor (TRAF), useful for treating  
 PT diseases associated with TRAF expression such as inflammatory diseases.  
 XX  
 PS Example 14; Page 46; 170pp; English.

CC The present invention relates to antisense oligonucleotides (see AAA55496  
 CC -A55757) which are targeted to nucleic acids encoding a human tumour  
 CC necrosis factor receptor-associated factor (TRAF). The antisense  
 CC sequences comprise at least one modified internucleotide linkage, which  
 CC is a phosphorothioate linkage. The oligonucleotides also include at least  
 CC one modified sugar moiety such as a 2'-O-methoxyethyl sugar moiety.  
 CC Sequences AAA55490-A55495 represent nucleotide sequences encoding human  
 CC TRAF1-6. Included in the invention is a method for treating a human  
 CC having a disease associated with the expression of TRAF comprising  
 CC administering an antisense oligonucleotide. The reduction of Jun kinase  
 CC activation in cells comprises contacting the cells with an antisense  
 CC oligonucleotide targeted to TRAF-6. A method for the reduction of E-  
 CC selectin expression in cells or tissues comprises contacting the cells or  
 CC tissues with an antisense oligonucleotide targeted to TRAF-2 or TRAF-6.  
 CC The antisense oligonucleotides have antiproliferative and anti-  
 CC inflammatory activity and are useful for treating disorders associated

CC with cell proliferation and inflammation. The antisense oligonucleotides  
 CC may also be used as a diagnostic probe for studying gene function

XX  
 SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 239 AGGCTGCTTCCGGGCT 255  
 DB 1 AGACGGCTTCTGGGCT 17

RESULT 840  
 AAZ48548/c  
 ID AAZ48548 standard; DNA; 18 BP.  
 XX  
 AC AAZ48548;  
 XX  
 DT 31-MAR-2000 (first entry)  
 XX  
 DE Human TNFRI mRNA inhibiting antisense oligo ISIS# 18941.  
 XX  
 KW Tumour necrosis factor receptor type 1; TNFRI; antisense; infection;  
 KW inflammation; tumour formation; TNFRI; anticancer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN US6007995-A.  
 XX  
 PD 28-DEC-1999.  
 XX  
 PF 26-JUN-1998; 98US-00106038.  
 XX  
 PR 26-JUN-1998; 98US-00106038.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Baker BF, Cowser LM;  
 XX  
 DR WPI; 2000-105333/09.  
 XX  
 PT Antisense inhibition of tumor necrosis factor type 1 expression for  
 PT diagnosis, treatment and prevention of disease, particularly tumors.  
 XX  
 PS Claim 1; Col 25; 34pp; English.

CC The invention provides antisense compounds targeted to human tumour  
 CC necrosis factor receptor type 1 (TNFRI) RNA. These antisense compounds  
 CC can be used in a method of inhibiting the expression of TNFRI human cells  
 CC or tissues. The antisense compounds specifically hybridize with one or  
 CC more nucleic acids encoding TNFRI modulating the function of nucleic acid  
 CC molecules encoding TNFRI, ultimately modulating the amount of TNFRI  
 CC produced. The antisense compounds and method are useful as research  
 CC reagents and diagnostics, and in the treatment and prophylaxis of  
 CC infection, inflammation or tumour formation. Sequences AAZ48482-565  
 CC represent antisense oligos used for inhibition of the human TNFRI mRNA

XX  
 SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 131 GCTGGCCCGCTGGCGG 147  
 DB 18 GCTGGGCTGCTGGAGG 2

RESULT 841  
 AAZ39609

```

ID  AAZ39609 standard; DNA; 18 BP.
XX  AAZ39609;
AC
DT  28-FEB-2000 (first entry)
XX
DE  Human CREL mRNA inhibiting antisense oligo ISIS #24093.
XX
XX  Human; cREL; transcriptional activator; antisense compound; therapeutic;
KW  ss.
XX  Synthetic.
OS  Homo sapiens.
XX
XX  US6001652-A.
XX
XX  14-DEC-1999.
PD
XX
XX  18-SEP-1998; 98US-00156253.
PF
XX
XX  18-SEP-1998; 98US-00156253.
PR
XX
XX  (ISIS-) ISIS PHARM INC.
PA
XX  Monia BP, Cowser LM, Baker BP;
PI
XX  WPI; 2000-061889/05.
DR
XX
XX  Antisense modulation of human cREL expression.
PI
XX
XX  Example 15; Col 27; 26pp; English.
PS
XX
XX  The invention provides antisense compounds targeted to a coding region,
CC  3'UTR or 5'UTR of a nucleic acid molecule encoding human cREL
CC  (transcriptional activator). The antisense compounds are useful as
CC  research agents and diagnostics such as in the elucidation of the
CC  function of a particular gene. The antisense compounds can be useful as
CC  therapeutic modalities that can be configured to be useful in treatment
CC  regimens for treatment of cells, tissues and animals, especially humans.
CC  In the prior art, there are no known therapeutic agents which effectively
CC  inhibit the synthesis of cREL and additional agents capable of inhibiting
CC  cREL function are still required. Sequences AAZ39588-627 represent
CC  antisense phosphorothioate oligodeoxynucleotides inhibiting human cREL
CC  mRNA
XX
XX  Sequence 18 BP; 2 A; 5 C; 4 G; 7 T; 0 U; 0 Other;
SQ
Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY  405 TTCTACGTGATCGAGAC 421
Db  2 TTCTACGTGATCGTGGC 18
    |||||
    |||||

RESULT 842
AAZ69838/c
ID  AAZ69838 standard; DNA; 18 BP.
XX
XX  AAZ69838;
AC
XX
XX  10-SEP-2001 (first entry)
DT
XX
DE  Human biallelic marker upstream amplification primer SEQ ID NO:4194.
XX
XX  Human genome; biallelic marker; high density disequilibrium map;
KW  genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW  haplotyping; hybridisation; identification; characterisation;
KW  amplification; single nucleotide polymorphism; SNP; PCR primer;
KW  diagnosis; ss.
XX
XX  Homo sapiens.
OS

XX  WO9954500-A2.
XX
XX  28-OCT-1999.
PD
XX
XX  21-APR-1999; 99WO-IB000822.
PF
XX
XX  21-APR-1998; 98US-0082614P.
PR
XX  23-NOV-1998; 98US-0109732P.
XX
XX  (GEST ) GENSET.
PA
XX  Cohen D, Blumenfeld M, Chumakov I;
XX
XX  WPI; 2000-013267/01.
XX
XX  Novel biallelic markers used to construct a high density disequilibrium
XX  map of the human genome.
XX
XX  Claim 8; Page 1125; 2745pp; English.
XX
XX  AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC  invention, which contain a polymorphic base at position 24 of their
CC  nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC  primers for the biallelic markers. The biallelic markers of the invention
CC  have a variety of uses: they can be used for high density mapping of the
CC  human genome, and in complex association studies and haplotyping studies
CC  which are useful in determining the genetic basis for disease states.
CC  Compositions and methods of the invention can also be useful for the
CC  identification of the targets for the development of pharmaceutical
CC  agents and diagnostic methods, as well as the characterisation of the
CC  differential efficacious responses to and side effects from
CC  pharmaceutical agents acting on a disease as well as other treatment.
CC  N.B. the SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
CC  3367, are not actually given a sequence in the Sequence Listing from the
CC  present invention
XX
XX  Sequence 18 BP; 2 A; 3 C; 6 G; 7 T; 0 U; 0 Other;
SQ
Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY  45 GGCACCACTCAGGGA 61
Db  18 GACCACCACTTAGAGAA 2
    |||||
    |||||

RESULT 843
AAC78898/c
ID  AAC78898 standard; DNA; 18 BP.
XX
XX  AAC78898;
AC
XX
XX  08-FEB-2001 (first entry)
DT
XX
DE  Human PRO298 forward PCR primer SEQ ID NO:519.
XX
XX  Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;
KW  expressed sequence tag; detection; cancer; PCR primer; probe; ss.
XX
XX  Homo sapiens.
OS
XX  WO200053756-A2.
XX
XX  14-SEP-2000.
PD
XX
XX  18-FEB-2000; 2000WO-US004341.
XX
XX  08-MAR-1999; 99WO-US005028.
PR
XX  12-MAR-1999; 99US-0123957P.
PR
XX  29-MAR-1999; 99US-0126773P.
PR
XX  21-APR-1999; 99US-0130232P.
PR
```

[illegible]

PI Tan C, McKee K;  
XX WPI; 2001-343479/36.  
XX  
XX Novel polypeptides related to dog and rabbit motilin receptor  
PT polypeptide, comprising unique regions from dog and motilin receptor  
PT amino acid sequence, useful for identifying compounds for treating  
PT diarrhea in humans.  
XX  
XX Claim 17; Page 22; 42pp; English.  
PS  
XX AAF85456-60 represent polynucleotide sequences from the unique region of  
CC exon 1 of a rabbit motilin receptor gene. The specification describes an  
CC unique sequence present in exon 1 of the motilin receptor, which is not  
CC present in human or Sphaeroides naphelus 7587 motilin receptor sequences.  
CC The unique nucleic acid sequence is useful for measuring the ability of a  
CC compound to affect motilin receptor activity. Motilin receptor  
CC polynucleotides and polypeptides are used to identify therapeutic  
CC compounds which are useful for treating gastrointestinal diseases and  
CC disorders such as gastric motility disorders, gastroparesis, irritable  
CC bowel syndrome, and diarrhoea  
XX  
SQ Sequence 18 BP; 1 A; 7 C; 7 G; 3 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 373 TCCTGACCGCGACGAC 389  
DB 18 TCGGGCGCGGAGAC 2  
  
RESULT 846  
AAF79645/c  
ID AAF79645 standard; DNA; 18 BP.  
XX  
AC AAF79645;  
XX  
XX 29-MAY-2001 (first entry)  
DT  
DE Human Akt-3 antisense oligonucleotide, SEQ ID NO: 53.  
XX  
XX Human; Akt-3; protein kinase; cytostatic; antiinflammatory; infection;  
XX antisense therapy; inflammation; tumour; ss.  
XX Homo sapiens.  
XX  
XX US6187586-B1.  
PN  
XX 13-FEB-2001.  
PD  
XX 29-DEC-1999; 99US-00474922.  
PF  
XX 29-DEC-1999; 99US-00474922.  
PR  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX Monia BP, Cowsett LM, Roth RA;  
PI  
XX WPI; 2001-264979/27.  
XX  
XX New antisense compounds targeting nucleic acids encoding human Akt-3  
PT useful for treating a disease or condition associated with Akt-3  
PT expression, or in preventing or delaying inflammation or tumor formation.  
PT  
XX Claim 1; Col 39; 37pp; English.  
PS  
XX The present sequence is one of a number of antisense compounds of up to  
CC 30 nucleobases in length targeted to a nucleic acid encoding human Akt-3.  
CC The antisense compounds are useful for inhibiting the expression of human  
CC Akt-3 in human cells or tissues. They are also useful for modulating the  
CC expression of Akt-3, and for treating a human or an animal suspected of

CC having, or being prone to, a disease or condition associated with Akt-3  
CC expression. The antisense compounds may also be used as research  
CC reagents, in kits and in diagnostics, e.g. to elucidate the function of a  
CC particular gene or to distinguish between functions of various members of  
CC a biological pathway; and as a prophylactic, e.g. to prevent or delay  
CC infection, inflammation or tumour formation  
XX  
SQ Sequence 18 BP; 3 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 76 AGGCGCGCGAGTGGAC 92  
DB 18 ATGGCGGAGCAGTAGAC 2  
  
RESULT 847  
AAF82476/c  
ID AAF82476 standard; DNA; 18 BP.  
XX  
AC AAF82476;  
XX  
XX 29-JUN-2001 (first entry)  
DT  
DE Rat P00188D09 RNA reverse PCR primer.  
XX  
XX Rat; secreted factor; P00210D09; P00188D09; cardiant; nephrotropic;  
XX antiinflammatory; gene therapy; cardiac disease; renal disease;  
XX inflammatory disease; PCR primer; ss.  
XX  
XX Rattus norvegicus.  
OS  
XX WO200123419-A2.  
PN  
XX 05-APR-2001.  
PD  
XX 27-SEP-2000; 2000WO-US026582.  
PF  
XX 27-SEP-1999; 99US-0156277P.  
PR  
XX (SCIO-) SCIOS INC.  
PA  
XX Stanton LW, Kapoun AM;  
PI  
XX WPI; 2001-328177/34.  
DR  
XX Novel secreted factor encoded by clone P00210D09 useful for diagnosing,  
PT treating and/or preventing various cardiac, renal and inflammatory  
PT diseases.  
XX  
XX Example 9; Page 51; 69pp; English.  
PS  
XX The present sequence was used to amplify rat P00188D09 RNA by  
CC quantitative real-time PCR. The invention relates to a polypeptide  
CC comprising a sequence of at least 80% identity to residues 22-122 of the  
CC present sequence, or a sequence encoded by a nucleic acid hybridising  
CC under stringent conditions to the complement of the coding region  
CC comprising 1031 nucleotides, and having at least one biological activity  
CC of the polypeptide encoded by rat clone P00210D09. The polypeptides and  
CC polynucleotides of the invention are useful for the treatment of cardiac,  
CC renal and inflammatory diseases. The P00210D09 polynucleotides are useful  
CC in antisense mediated gene inhibition and in gene therapy. The  
CC polypeptides are useful in assays for identifying lead compounds that may  
CC be used as therapeutic agents in the treatment of cardiac, kidney or  
CC inflammatory diseases  
XX  
SQ Sequence 18 BP; 3 A; 7 C; 4 G; 4 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 16 TCGGGGTGACCGAGGCG 32  
 Db 17 TGCAGGTGATCGAGCG 1

RESULT 848

AAH40381  
 ID AAH40381 standard; DNA; 18 BP.

AC AAH40381;

DT 14-AUG-2001 (first entry)

XX SNP specific upper PCR primer SEQ ID 3177.

XX Single nucleotide polymorphism; SNP; single nucleotide primer extension;  
 KW SNPE; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;  
 KW Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;  
 KW polycystic kidney disease; osteogenesis imperfecta; autoimmune disease;  
 KW acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;  
 KW inflammation; forensic investigation; paternity analysis; PCR primer; ss.

OS Homo sapiens.

PN WO200129262-A2.

PD 26-APR-2001.

XX 13-OCT-2000; 2000WO-US028436.

XX 15-OCT-1999; 99US-0160096P.

XX (ORCH-) ORCHID BIOSCIENCES INC.

XX Picoult-Newburg L, Pohl M;

PI WPI; 2001-290930/30.

XX New genotyping oligonucleotide, useful for detecting the presence,  
 PT absence or identity of single polynucleotide polymorphism in a nucleic  
 PT acid sample.

XX Claim 1; Page 66; 83pp; English.

XX Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide  
 CC primer extension (SNPE) primers, and the sequences of regions flanking  
 CC sites of single nucleotide polymorphisms SNPs. The present invention  
 CC includes kits for determining the presence or absence of a SNP, using the  
 CC oligonucleotides of the invention. The PCR primers are used to amplify a  
 CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.  
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by  
 CC performing a single-nucleotide primer extension reaction. The  
 CC oligonucleotides are useful for determining the presence, absence or  
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to  
 CC assess by association analysis the genotype of an individual or group of  
 CC individuals, having a pathological phenotypic trait suspected of being  
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.  
 CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular  
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,  
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic  
 CC traits also include symptoms of or susceptibility to multifactorial  
 CC disease of which a component is or may be genetic such as autoimmune  
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,  
 CC inflammation, cancer, nervous system diseases and infection by pathogenic  
 CC microorganism. The method is also useful in forensic investigations and  
 CC paternity analysis. The present sequence represents a PCR primer specific  
 CC for a human SNP containing DNA sequence

XX Sequence 18 BP; 4 A; 4 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 140 CCTGGGGTGGAGGCGG 156  
 Db 2 CCGGAGGTGAAGCGCG 18

RESULT 849

ABZ72355/C

ID ABZ72355 standard; DNA; 18 BP.

XX AC ABZ72355;

XX 03-APR-2003 (first entry)

DT Gene 216 polymorphism genotyping ASO primer SEQ ID NO 327.

XX Human; Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic;  
 KW anti-inflammatory; gastrointestinal; gene therapy; vaccine; asthma;  
 KW obesity; inflammatory bowel disease; primer; ss.  
 XX Synthetic.

XX WO200178894-A2.

XX 25-OCT-2001.

XX 13-APR-2001; 2001WO-US012245.

XX 13-APR-2000; 2000US-00548797.

XX (GENO-) GENOME THERAPEUTICS CORP.

XX Keith T;

XX WPI; 2001-639428/73.

XX Isolated genes (Gene 216) from human chromosome 20p13-p12 and the  
 PT proteins they encode, useful for the prevention, diagnosis and treatment  
 PT of asthma, obesity and inflammatory bowel disease.

XX Example 11; Page 156; 520pp; English.

XX The invention relates to isolated genes (Gene 216) from human chromosome  
 CC 20p13-p12 and the proteins they encode. The nucleic acids and proteins  
 CC may be used in the prevention, diagnosis and treatment of diseases  
 CC associated with inappropriate Gene 216 expression. For example, the  
 CC nucleic acids (or vectors) and proteins may be used to treat disorders  
 CC associated with decreased expression by rectifying mutations or deletions  
 CC in a patient's genome that affect the activity of gene 216 by expressing  
 CC inactive proteins or to supplement the patients own production of Gene  
 CC 216 proteins. Additionally, the nucleic acids may be used to produce the  
 CC secreted Gene 216 protein, by inserting the nucleic acids into a host  
 CC cell and culturing the cell to express the protein. The nucleic acids and  
 CC complementary sequences may also be used as DNA probes in diagnostic  
 CC assays to detect and quantitate the presence of similar nucleic acid  
 CC sequences in samples and therefore which patients may be in need of  
 CC restorative therapy. The Gene 216 protein may also be used as antigens in  
 CC the production of antibodies against Gene 216 and in assays to identify  
 CC modulators of Gene 216 expression and activity. The anti-Gene 216  
 CC antibodies and antagonists may also be used to down regulate expression  
 CC and activity. The anti-Gene 216 antibodies may also be used as diagnostic  
 CC agents for detecting the presence of Gene 216 proteins in samples (e.g.  
 CC by enzyme linked immunosorbant assay or ELISA). Disorders that may be  
 CC prevented, diagnosed and/or treated by the above methods include, for  
 CC example asthma, obesity and inflammatory bowel disease. The present  
 CC sequence is that of a Gene 216 related primer used in examples of the  
 CC invention. The primers are used in the physical mapping of the gene  
 CC (ABZ72067-ABZ72068), polymorphism identification using single strand  
 CC conformational polymorphism (SSCP) analysis (ABZ72091-ABZ72184),  
 CC sequencing (ABZ72185-ABZ72268) and genotyping (ABZ72317-ABZ72362)

XX Sequence 18 BP; 1 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

XX	Query Match	2.9%;	Score 12.2;	DB 1;	Length 18;	
XX	Best Local Similarity	82.4%;	Pred. No. 4.7e+02;			
XX	Matches 14;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;	
QY	92 CATCACACGCTGACC 108					
DB	17 CAGCACCACGCTGACC 1					
XX						
XX	RESULT 850					
XX	ABA82276/c					
XX	ID ABA82276 standard; DNA; 18 BP.					
XX	AC ABA82276;					
XX	DT 25-JAN-2002 (first entry)					
XX	Zmax1 gene region physical map preparation STS marker #235.					
XX	Human; high bone mass; HBM gene; Zmax1 gene; chromosome 11; 11q13.3;					
XX	sequence tagged site; STS; osteoporosis; osteopathic; gene therapy;					
XX	antisense therapy; vaccine; bone disorder; Paget's disease; adapter;					
XX	sclerostosis; osteomalacia; fibrous dysplasia; PCR primer; linker; ss.					
XX	Homo sapiens.					
XX	Synthetic.					
XX	WO200177327-A1.					
XX	18-OCT-2001.					
XX	21-JUN-2000; 2000WO-US016951.					
XX	05-APR-2000; 2000US-00543771.					
XX	05-APR-2000; 2000US-00544398.					
XX	(GENO-) GENOME THERAPEUTICS CORP.					
XX	Carulli JP, Little RD, Recker RR, Johnson ML;					
XX	WPI; 2001-657171/75.					
XX	New high bone mass (HBM) and Zmax1 genes and proteins useful for					
XX	modulating bone mass for the treatment of e.g. osteoporosis.					
XX	Disclosure; Page 34; 443pp; English.					
XX	The present invention describes the human Zmax1 gene and the high bone					
XX	mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM					
XX	genes have osteopathic activities. The genes can be used in gene therapy,					
XX	antisense therapy and in the production of vaccines. They can be used in					
XX	the diagnosis and treatment of bone disorders including osteoporosis,					
XX	Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.					
XX	ABA82038 to ABA82700 and ABA68168 to ABA68193 represent sequences used in					
XX	the exemplification of the present invention					
XX	Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;					
QY	1 GCCCAGGAGTGAACTG 17					
DB	18 GGCACGAGTGACTCTG 2					
XX						
XX	RESULT 851					
XX	AAS20963/c					
XX	ID AAS20963 standard; DNA; 18 BP.					
XX	AAS20963;					
XX						
QY	Query Match	2.9%;	Score 12.2;	DB 1;	Length 18;	
DB	Best Local Similarity	82.4%;	Pred. No. 4.7e+02;			
XX	Matches 14;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;	
QY	75 GAGGGCCGCGCAGTGA 91					
DB	18 GATGCCCCCGCAGGGA 2					
XX						
XX	RESULT 852					
XX	ABT05044/c					
XX	ID ABT05044 standard; DNA; 18 BP.					
XX	ABT05044;					
XX						
QY	Query Match	2.9%;	Score 12.2;	DB 1;	Length 18;	
DB	Best Local Similarity	82.4%;	Pred. No. 4.7e+02;			
XX	Matches 14;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;	
QY	75 GAGGGCCGCGCAGTGA 91					
DB	18 GATGCCCCCGCAGGGA 2					
XX						
XX	RESULT 852					
XX	ABT05044/c					
XX	ID ABT05044 standard; DNA; 18 BP.					
XX	ABT05044;					
XX						
QY	Query Match	2.9%;	Score 12.2;	DB 1;	Length 18;	
DB	Best Local Similarity	82.4%;	Pred. No. 4.7e+02;			
XX	Matches 14;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;	
QY	75 GAGGGCCGCGCAGTGA 91					
DB	18 GATGCCCCCGCAGGGA 2					
XX						
XX	Sequence 18 BP; 1 A; 8 C; 5 G; 4 T; 0 U; 0 Other;					
QY	Query Match	2.9%;	Score 12.2;	DB 1;	Length 18;	
DB	Best Local Similarity	82.4%;	Pred. No. 4.7e+02;			
XX	Matches 14;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;	
QY	75 GAGGGCCGCGCAGTGA 91					
DB	18 GATGCCCCCGCAGGGA 2			</		

Query Match	2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity	82.4%; Pred. No. 4.7e+02;
Matches 14;	Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY	92 CATCACACAGTCTGACC 108
DB	17 CAGCACACAGCTGACC 1
<p>RESULT 850</p> <p>ABA82276/c</p> <p>ID ABA82276 standard; DNA; 18 BP.</p> <p>XX</p> <p>XX ABA82276;</p> <p>XX</p> <p>DT 25-JAN-2002 (first entry)</p> <p>XX</p> <p>DE Zmax1 gene region physical map preparation STS marker #235.</p> <p>XX</p> <p>XX Human; high bone mass; HBM gene; Zmax1 gene; chromosome 11; 11q13.3;</p> <p>KW sequence tagged site; STS; osteoporosis; osteopathic; gene therapy;</p> <p>KW antisense therapy; vaccine; bone disorder; Paget's disease; adapter;</p> <p>KW sclerostosis; osteomalacia; fibrous dysplasia; PCR primer; linker; ss.</p> <p>XX</p> <p>OS Homo sapiens.</p> <p>OS Synthetic.</p> <p>XX</p> <p>XX WO200177327-A1.</p> <p>XX</p> <p>PD 18-OCT-2001.</p> <p>XX</p> <p>XX 21-JUN-2000; 200WO-US016951.</p> <p>XX</p> <p>XX 05-APR-2000; 2000US-00543771.</p> <p>PR</p> <p>PR 05-APR-2000; 2000US-00544398.</p> <p>XX</p> <p>XX (GENO-) GENOME THERAPEUTICS CORP.</p> <p>XX</p> <p>XX Carulli JP, Little RD, Recker RR, Johnson ML;</p> <p>PI WPI; 2001-657171/75.</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>PT New high bone mass (HBM) and Zmax1 genes and proteins useful for</p> <p>PT modulating bone mass for the treatment of e.g. osteoporosis.</p> <p>XX</p> <p>XX Disclosure; Page 34; 443pp; English.</p> <p>PS</p> <p>XX</p> <p>XX The present invention describes the human Zmax1 gene and the high bone</p> <p>CC mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM</p> <p>CC genes have osteopathic activities. The genes can be used in gene therapy,</p> <p>CC antisense therapy and in the production of vaccines. They can be used in</p> <p>CC the diagnosis and treatment of bone disorders including osteoporosis,</p> <p>CC Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.</p> <p>CC ABA82038 to ABA82700 and AAG86168 to AAG86193 represent sequences used in</p> <p>CC the exemplification of the present invention</p> <p>XX</p> <p>XX</p> <p>SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;</p>	
Query Match	2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity	82.4%; Pred. No. 4.7e+02;
Matches 14;	Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY	1 GGCCAGGAGTGAACTG 17
DB	18 GGGCAGGAGTGACTCTG 2
<p>RESULT 851</p> <p>AAS20963/c</p> <p>ID AAS20963 standard; DNA; 18 BP.</p> <p>XX</p> <p>XX AAS20963;</p>	



DT 11-OCT-2002 (first entry)  
DE TNFR1 expression modulation related antisense oligo SEQ ID No 74.  
XX Antisense compound; tumour necrosis factor receptor 1; liver disease;  
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;  
KW human; ds.  
XX Homo sapiens.  
XX WO200248168-A1.  
PN 20-JUN-2002.  
XX 22-OCT-2001; 2001WO-US051224.  
PF 24-OCT-2000; 2000US-00695451.  
PR (ISIS-) ISIS PHARM INC.  
PA Baker BF, Cowse LM, Zhang H, Dean NM;  
XX WPI; 2002-583481/62.  
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor  
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having  
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.  
XX Example 10; Page 45; 121pp; English.  
XX The invention relates to an antisense compound 8 to 30 nucleotides in  
CC length targeted to nucleic acid molecule encoding tumour necrosis factor  
CC receptor 1 (TNFR1), where the antisense compound inhibits expression of  
CC TNFR1. The antisense compound is useful for inhibiting the expression of  
CC TNFR1 in cells or tissues. The antisense compound is also useful for  
CC treating an animal (preferably human) having a disease or condition  
CC associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver  
CC injury) or a hyperproliferative disorder such as cancer, by inhibiting  
CC the expression of TNFR1. The antisense compound is useful for  
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.  
CC This polynucleotide sequence represents a human oligonucleotide relating  
CC to the TNFR1 of the invention  
XX  
SQ Sequence 18 BP; 3 A; 9 C; 4 G; 2 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 131 GCTGGCCGCGCTGGCGG 147  
|||||  
Db 18 GCTGGCGCTGGCGG 2  
RESULT 853  
ABT05119  
ID ABT05119 standard; DNA; 18 BP.  
XX AC ABT05119;  
XX DT 11-OCT-2002 (first entry)  
XX TNFR1 expression modulation related antisense oligo SEQ ID No 149.  
DE Antisense compound; tumour necrosis factor receptor 1; liver disease;  
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;  
KW human; ds.  
XX Homo sapiens.  
XX WO200248168-A1.  
PN 20-JUN-2002.  
XX

XX 22-OCT-2001; 2001WO-US051224.  
PF 24-OCT-2000; 2000US-00695451.  
PR (ISIS-) ISIS PHARM INC.  
XX Baker BF, Cowse LM, Zhang H, Dean NM;  
XX WPI; 2002-583481/62.  
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor  
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having  
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.  
XX Example 18; Page 56; 121pp; English.  
XX The invention relates to an antisense compound 8 to 30 nucleotides in  
CC length targeted to nucleic acid molecule encoding tumour necrosis factor  
CC receptor 1 (TNFR1), where the antisense compound inhibits expression of  
CC TNFR1. The antisense compound is useful for inhibiting the expression of  
CC TNFR1 in cells or tissues. The antisense compound is also useful for  
CC treating an animal (preferably human) having a disease or condition  
CC associated with TNFR1, e.g. a liver disease (such as hepatitis, or liver  
CC injury) or a hyperproliferative disorder such as cancer, by inhibiting  
CC the expression of TNFR1. The antisense compound is useful for  
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.  
CC This polynucleotide sequence represents a human oligonucleotide relating  
CC to the TNFR1 of the invention  
XX  
SQ Sequence 18 BP; 4 A; 2 C; 9 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 141 CTGGCGGTGGAGCGCG 157  
|||||  
Db 1 CTGGAGGTGGAGCGG 17  
RESULT 854  
AAL43633  
ID AAL43633 standard; DNA; 18 BP.  
XX AC AAL43633;  
XX DT 05-SEP-2002 (first entry)  
XX Rhodococcus picric acid degradation pathway-related universal PCR primer.  
DE Picric acid degradation gene cluster; ss; recombinant organism;  
KW Picric acid degradation pathway; PCR; primer.  
XX Unidentified.  
OS US2002042117-A1.  
XX PN 11-APR-2002.  
XX PD 17-SEP-2001; 2001US-00955597.  
PF 03-SEP-1999; 99US-0152545P.  
PR 31-AUG-2000; 2000US-00651941.  
XX (ROUV/) ROUVIERE P E.  
PA (WALT/) WALTERS D M.  
PA (RUSS/) RUSS R.  
XX PI Rouviere PE, Walters DM, Russ R;  
XX WPI; 2002-381946/41.  
XX

PT Isolated nucleic acid fragments encoding enzymes of the picric acid  
PT degradation pathway isolated from Rhodococcus erythropolis HL PM-1,  
PT useful in the creation of recombinant organisms that have the ability to  
PT degrade picric acid.  
XX  
XX Example 5; Page 15; 53pp; English.  
PS  
CC The invention comprises 12 Rhodococcus erythropolis ORFs encoding enzymes  
CC of the picric acid degradation pathway. The invention also comprises the  
CC nucleotide sequence of the picric acid degradation gene cluster  
CC containing all 12 of the ORFs. The picric acid degradation pathway genes  
CC and enzymes of the invention are useful for creating recombinant  
CC organisms that have the ability to degrade picric acid. As well as for  
CC the identification of new species of bacteria that have the ability to  
CC degrade picric acid. The present DNA sequence represents a Rhodococcus  
CC picric acid degradation pathway-related universal reamplification PCR  
CC primer  
XX  
XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 178 AGTCCAGGACATATC 194  
DB 1 AGTCCAGGACATATC 17  
RESULT 855  
ABK51851  
ID ABK51851 standard; DNA; 18 BP.  
XX  
XX AC ABK51851;  
XX  
XX DT 13-AUG-2002 (first entry)  
XX  
XX DE R. erythropolis picric acid degradation related universal PCR primer.  
XX  
XX KW Picric acid degradation; 2,4,6-trinitrophenol; explosive manufacturing;  
XX aniline; colour fast dye; pharmaceutical; steel etching; PCR;  
XX environmental toxicant; enzymatic degradative process; primer; ss.  
XX  
XX OS Synthetic.  
XX  
XX PN US6355470-B1.  
XX  
XX PD 12-MAR-2002.  
XX  
XX PF 31-AUG-2000; 2000US-00651941.  
XX  
XX PR 03-SEP-1999; 99US-0152545P.  
XX  
XX PA (DUPO ) DU PONT DE NEMOURS & CO E I.  
XX  
XX PI Rouviere PE, Walters DM, Russ R;  
XX  
XX DR WPI; 2002-433274/46.  
XX  
XX PT Nucleic acid encoding an F420/NADPH oxidoreductase isolated from  
XX Rhodococcus erythropolis HL PM-1 is associated with picric acid  
XX degradation and is useful to create recombinant organisms that degrade.  
XX  
XX PS Example 5; Col 26; 49pp; English.  
XX  
CC The present invention relates to the isolation of Rhodococcus  
CC erythropolis HL PM-1 gene cluster containing 12 open reading frames  
CC (ORFs) implicated in the degradation of picric acid (2,4,6-  
CC trinitrophenol). The polynucleotide sequences of the invention are useful  
CC for creating recombinant organisms that have the ability to degrade  
CC picric acid. Picric acid which is used in industrial applications  
CC including the manufacture of explosives, aniline, colour fast dyes,  
CC pharmaceuticals and in steel etching, is highly unstable. The present

CC invention provides a means of disposal/removal of this toxic substance  
CC from the environment by an enzymatic degradative process. The present  
CC sequence represents a universal PCR primer used in the examples of the  
CC present invention  
XX  
XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 178 AGTCCAGGACATATC 194  
DB 1 AGTCCAGGACATATC 17  
RESULT 856  
ABK23073/C  
ID ABK23073 standard; DNA; 18 BP.  
XX  
XX AC ABK23073;  
XX  
XX DT 09-APR-2002 (first entry)  
XX  
XX DE Human Zmax1 cDNA forward PCR primer #118.  
XX  
XX KW Human; mouse; Zmax1; HBM; high bone mass gene; lipid regulation; stroke;  
XX lipid-associated condition; arteriosclerosis; cardiovascular disease; ss;  
XX osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque build-up;  
XX neurovascular condition; wound healing; gene therapy; PCR primer; probe;  
XX bone development disorder; antiarteriosclerotic; cardiovascular;  
XX osteopathic; cerebroprotective.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200192891-A2.  
XX  
XX PD 06-DEC-2001.  
XX  
XX PF 25-MAY-2001; 2001WO-US016946.  
XX  
XX PR 26-MAY-2000; 2000US-00578900.  
XX  
XX PA (GENO-) GENOME THERAPEUTICS CORP.  
XX (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.  
XX  
XX PI Carulli JP, Little RD, Recker RR, Johnson ML;  
XX  
XX DR WPI; 2002-097784/13.  
XX  
XX PT Identifying molecules involved in lipid regulation, useful for  
XX diagnosing, treating or preventing e.g., arteriosclerosis, comprises  
XX identifying a molecule that binds to high bone mass gene or its  
XX corresponding wild type gene.  
XX  
XX PS Disclosure; Page 39; 409pp; English.  
XX  
CC The invention relates to a method for identifying a molecule involved in  
CC lipid regulation comprising identifying a molecule that binds to or  
CC inhibits binding of a molecule to high bone mass (HBM) or its wild type  
CC gene, Zmax1. Compounds identified by the method are useful for treating,  
CC diagnosing, preventing or screening for normal and abnormal lipid-  
CC associated conditions, including arteriosclerosis, cardiovascular  
CC disease, stroke, and osteoporosis. The compounds may also be used in the  
CC treatment or prevention of diabetic atherosclerosis, neurovascular  
CC conditions caused by plaque build-up, poor circulation due to plaque  
CC build-up and associated poor wound healing. The methods may be used in  
CC gene therapy, pharmaceutical development, and diagnostic assays for bone  
CC development disorders. Molecules identified by comparison of Zmax1 and  
CC HBM systems can be used as surrogate markers in pharmaceutical  
CC development, in diagnosis of human or animal bone disease, and in the  
CC treatment of bone diseases. Sequences ABK22776-ABK23411 represent cDNA  
CC molecules encoding human Zmax1 and HBM, and PCR primers, probes, linkers

```
CC and adapters of the invention
XX
SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;

Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GGCACGAGGTGAACCTG 17
   |||||
Dd 18 GGCACGAGGTGACTCTG 2

RESULT 857
ABL30698
ID ABL30698 standard; DNA; 18 BP.
XX
XX ABL30698;
XX
DT 21-MAR-2002 (first entry)
XX
DE Human HLA genotyping oligonucleotide SEQ ID NO 187.
XX
KW Human; human leukocyte antigen; HLA; genotype; polymorphism;
KW immunogenetic; transplantation; genetic disease; ss.
XX
OS Homo sapiens.
XX
PN WO200192572-A1.
XX
XX 06-DEC-2001.
XX
PD 01-JUN-2001; 2001WO-JP004662.
XX
PF 01-JUN-2000; 2000JP-00164798.
XX
PR (NIN ) NISSHINBO IND INC.
XX
PA (SYST-) SYSTEM RES INC.
XX
XX Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
XX WPI; 2002-122074/16.
XX
XX Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of
XX individuals e.g. by determining immunogenetic differences when
XX transplanting between them.
XX
PS Claim 10; Page 128; 345pp; Japanese.
XX
CC The invention relates to a typing kit for judging human leukocyte antigen
CC (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
CC oligonucleotides (ABL30512-ABL31809) originating in the sequences of
CC genes e.g. belonging to HLA class I antigens on human genome and
CC containing gene polymorphisms as alloantigens have been immobilised as
CC primers for amplification of cleaved nucleic acids relating to gene
CC polymorphisms. The method is useful for judging HLA genotypes of
CC individuals by determining immunogenetic differences before transplanting
CC organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
CC pancreas, Langerhans islet in pancreas and cornea, susceptibility
CC diagnosis of genetic diseases and identifying individuals
XX
SQ Sequence 18 BP; 4 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match      2.9%; Score 12.2; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCTGCCT 72
   |||||
Dd 2 AGAGGAGTCCGTGGCT 18

RESULT 858
AAD38945
ID AAD38945 standard; DNA; 18 BP.
XX
XX AAD38945;
XX
DT 23-SEP-2002 (first entry)
XX
DE Human Her-2 antisense oligonucleotide, ISIS #27972.
XX
KW Human; Her-2; epidermal growth factor receptor 2; infection; cancer;
KW hyperproliferative disorder; prophylaxis; inflammation; antisense;
KW tumour; gene therapy; phosphorothioate backbone; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /mod_base= OTHER
XX /note= "Phosphorothioate backbone"
XX modified_base 1..4
XX /*tag= b
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX modified_base 1
XX /*tag= d
XX /mod_base= m5c
XX modified_base 7
XX /*tag= e
XX /mod_base= m5c
XX modified_base 12
XX /*tag= f
XX /mod_base= m5c
XX modified_base 15..18
XX /*tag= c
XX /mod_base= OTHER
XX /note= "2'methoxyethyl nucleotides"
XX
XX WO200222636-A1.
XX
XX 21-MAR-2002.
XX
XX 12-SEP-2001; 2001WO-US028572.
XX
XX 15-SEP-2000; 2000US-00663834.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett CP, Cowsett LM;
XX WPI; 2002-471192/50.
XX
XX Novel antisense oligonucleotide which modulates the expression of Human
XX Epidermal Growth Factor receptor, Her2, is useful for treating tumors
XX inflammation or to prevent infection in humans.
XX
XX Claim 1; Page 89; 116pp; English.
XX
XX The invention relates to antisense compounds targetted to a nucleic acid
XX molecule encoding Her2 (human Epidermal Growth Factor receptor 2) that
XX specifically hybridises with and inhibits the expression of Her2.
XX Antisense compounds of the invention are used for treating disorders or
XX conditions associated with Her2 such as hyperproliferative disorders e.g.
XX lung, breast, gastric, oesophageal, colon, bladder, salivary, neural or
XX cardiac cancer. They are also useful prophylactically e.g. to prevent or
XX delay infection, inflammation and tumour formation. The invention is also
XX used in gene therapy. The present sequence is an antisense
XX oligonucleotide targetted to human Her-2
XX
XX Sequence 18 BP; 4 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
```

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 26 CGAGGGCTGGCAGCAAG 42  
DB 1 CGAAGGCTGGGCTGAAG 17

## RESULT 859

AAD27252  
ID AAD27252 standard; DNA; 18 BP.  
AC AAD27252;  
DT 09-APR-2002 (first entry)  
XX Primer used in the exemplification of the invention.  
DE  
XX  
XX Picric acid degradation gene; cyclohexanol degradation; heavy metal;  
KW inhibitory effect; chemical; environmental pollutant; anaerobiosis;  
KW oxidative damage; pathogenesis; primer; ss.  
XX  
XX Unidentified.  
OS  
XX US6329151-B1.  
PN  
XX  
PD 11-DEC-2001.  
XX  
XX 05-SEP-2000; 2000US-00655270.  
PF  
XX 03-SEP-1999; 99US-0152542P.  
PR  
XX (DUPO ) DU PONT DE NEMOURS & CO E I.  
PA  
PI Rouviere PE;  
XX  
XX WPI; 2002-121127/16.  
DR

PT Identifying differentially expressed genes, by amplifying total RNA of  
PT first microbial cell population that is contacted with stimulating agent  
PT and of a second population using arbitrary primers, and comparing them.  
XX  
XX Example 5; Col 5; Sipp; English.

XX The invention relates to a reliable and rapid method to identify  
CC differentially expressed genes in microbes. The method relies on the use  
CC of a large number of arbitrarily primed PCR reactions. The method is  
CC useful for identifying differentially expressed genes in microbes, and  
CC for distinguishing genetic differences between two populations of cells  
CC which differ in genotype. This method is useful for identifying the DNA  
CC sequences of genes involved in the degradation of the picric acid from  
CC Rhodococcus erythropolis strain HL PM-1, and genes involved in  
CC cyclohexanol degradation from a consortium of organisms, or to detect  
CC CDNA fragments from differentially expressed mRNAs. This method is useful  
CC for examining the inhibitory effects of various treatments such as  
CC chemicals, environmental pollutants, heavy metals, changes in  
CC temperature, changes in pH, agents producing oxidative damage, agents  
CC producing DNA damage, anaerobiosis, pathogenesis, and changes in nitrate  
CC availability on mRNA levels. The present sequence is an universal  
CC reamplification primer used in the exemplification of the invention  
XX  
XX Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 178 AGTCCAGGCACATATC 194  
DB 1 AGTCCAGGCACATATC 17

RESULT 860  
ABT11916  
ID ABT11916 standard; DNA; 18 BP.  
XX  
XX AC ABT11916;  
XX  
XX DT 19-DEC-2002 (first entry)  
XX  
XX Neublabin DNA related PCR primer.  
DE  
XX  
XX Nootropic; neuroprotective; antiparkinsonian; anticonvulsant; analgesic;  
KW tranquiliser; antidiabetic; ophthalmological; neurodegenerative disorder;  
KW neublabin; ischemic neuronal damage; traumatic brain injury; diabetes;  
KW peripheral neuropathy; neuropathic pain; Alzheimer's disease; glaucoma;  
KW Huntington's disease; Parkinson's disease; amyotrophic lateral sclerosis;  
KW memory impairment; renal disease; PCR; primer; ss.  
XX  
XX Unidentified.  
OS  
XX WO200272826-A2.  
PN  
XX 19-SEP-2002.  
PD  
XX 12-MAR-2002; 2002WO-EF002691.  
PF  
XX 12-MAR-2001; 2001US-00804615.  
PR  
XX (BIOJ ) BIOGEN INC.  
PA (NSGE-) NS GENE AS.  
XX  
XX Sah DWY, Johansen TE, Roscomando A;  
PI  
XX WPI; 2002-713515/77.  
DR  
XX New truncated neublabin polypeptides lacking one or more amino-terminal  
PT amino acids of a mature neublabin polypeptide useful for treating  
PT neurodegenerative disorders, e.g. peripheral neuropathy, neuropathic  
PT pain, brain injury.  
XX  
XX Disclosure; Fig 8; 138pp; English.  
PS  
XX The invention relates to a truncated neublabin polypeptide comprising an  
CC amino acid terminus that lacks one or more amino-terminal amino acids of  
CC a mature neublabin polypeptide. The polypeptides and nucleic acids are  
CC useful for treating neurodegenerative disorders such as ischemic neuronal  
CC damage, traumatic brain injury, peripheral neuropathy, neuropathic pain,  
CC Alzheimer's disease, Huntington's disease, Parkinson's disease, renal  
CC amyotrophic lateral sclerosis, memory impairment, diabetes, growth, differentiation  
CC diseases, or glaucoma by moderating metabolism, growth, differentiation  
CC or survival of a nerve or neuronal cell. This polynucleotide sequence is  
CC a neublabin PCR primer of the invention  
XX  
XX Sequence 18 BP; 1 A; 6 C; 9 G; 2 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 131 GCTGGCCCGCTGCGG 147  
DB 1 GCTGGCCCGCTGCGG 17

RESULT 861  
ACD42854/c  
ID ACD42854 standard; DNA; 18 BP.  
XX  
XX AC ACD42854;  
XX  
XX DT 09-SEP-2003 (first entry)  
XX  
XX Secreted and transmembrane protein associated oligonucleotide #163.  
DE  
XX

KW Human; secreted and transmembrane protein; PRO; virucide; gene therapy;  
KW cell death; growth induction cascade; blood coagulation cascade;  
KW viral infection; ss.  
XX

OS Homo sapiens.

PN US2003050239-A1.

XX 13-MAR-2003.

PF 15-OCT-2001; 2001US-00978191.

XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 12-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 17-MAR-1998; 98US-00040220.  
PR 20-MAR-1998; 98US-0078866P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079664P.  
PR 27-MAR-1998; 98US-0079689P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 22-APR-1998; 98US-0082804P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
PR 28-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083558P.  
PR 29-APR-1998; 98US-0083559P.

PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 07-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
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PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
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PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 15-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086414P.  
PR 22-MAY-1998; 98US-0086430P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087106P.  
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PR 26-JUN-1998; 98US-00105413.  
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PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
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PR 02-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98WO-US024855.  
PR 22-DEC-1998; 98US-00202054.  
PR 22-DEC-1998; 98US-00218517.  
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PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99WO-US000106.  
PR 05-MAR-1999; 99US-00254465.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99US-00265686.  
PR 10-MAR-1999; 99WO-US005190.  
PR 12-MAR-1999; 99US-00267213.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 12-APR-1999; 99US-00284291.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131042P.  
PR 26-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-00311832.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 25-AUG-1999; 99US-00380137.  
PR 25-AUG-1999; 99US-00380138.  
PR 25-AUG-1999; 99US-00380142.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.

PD 02-DEC-1999; 99WO-US028565.  
 XX 16-DEC-1999; 99WO-US030095.  
 PF 30-DEC-1999; 99WO-US031243.  
 XX 30-DEC-1999; 99WO-US031274.  
 PR 05-JAN-2000; 2000WO-US000219.  
 XX 06-JAN-2000; 2000WO-US000277.  
 PA 06-JAN-2000; 2000WO-US003376.  
 XX 11-FEB-2000; 2000WO-US003565.  
 PI 18-FEB-2000; 2000WO-US004341.  
 XX 24-FEB-2000; 2000WO-US005004.  
 DR 02-MAR-2000; 2000WO-US005841.  
 XX 10-MAR-2000; 2000WO-US006319.  
 PR 21-MAR-2000; 2000WO-US007532.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 17-MAY-2000; 2000WO-US013705.  
 XX 22-MAY-2000; 2000WO-US014042.  
 PR 30-MAY-2000; 2000WO-US014941.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 08-NOV-2000; 2000US-00709238.  
 PR 27-NOV-2000; 2000US-00723749.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 20-DEC-2000; 2000US-00747259.  
 PR 20-DEC-2000; 2000WO-US034956.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 22-MAR-2001; 2001US-00816744.  
 PR 22-MAR-2001; 2001US-00816920.  
 PR 22-MAR-2001; 2001WO-US009552.  
 PR 10-MAY-2001; 2001US-00854208.  
 PR 10-MAY-2001; 2001US-00854280.  
 PR 25-MAY-2001; 2001WO-US017092.  
 PR 01-JUN-2001; 2001US-00872035.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 05-JUN-2001; 2001US-00874503.  
 PR 14-JUN-2001; 2001US-00882636.  
 PR 19-JUN-2001; 2001US-00886342.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 PR 30-JUL-2001; 2001US-00918585.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DJ;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
 QY 149 GGAGCGCGCTTCGACT 165  
 DB 17 GGAGTCGACTTCCACT 1  
  
 RESULT 862  
 ABZ68345/C  
 ID ABZ68345 standard; DNA; 18 BP.  
 XX  
 AC ABZ68345;  
 XX  
 DT 22-APR-2003 (first entry)  
 DE PCR primer VPH1 used for amplification of vph marker.  
 XX  
 KW Genetic disruption; mutation; bacterial cell; transposable element; vph;  
 KW PCR; primer; ss.  
 XX Synthetic.  
 OS  
 XX WO2003002738-A1.  
 PN  
 XX

PD 09-JAN-2003.  
 XX 24-JUN-2002; 2002WO-GB002884.  
 PF 28-JUN-2001; 2001GB-00015894.  
 XX  
 PA (PLAN-) PLANT BIOSCIENCE LTD.  
 XX  
 PI Fowler K, Kieser TE;  
 XX  
 DR NPI; 2003-201505/19.  
 XX  
 PT Generating a mutation in a bacterial host cell (e.g. Streptomyces spp.),  
 PT comprising providing a bacterial donor cell (e.g. Escherichia coli)  
 PT comprising a plasmid and introducing the plasmid to the host cell by  
 PT conjugation.  
 XX  
 PS Example 1; Page 29; 69pp; English.  
 XX  
 CC The specification describes a method for generating genetic disruption  
 CC (mutation) in bacterial cells. The method comprises providing a bacterial  
 CC donor cell having a plasmid which comprises a transposable element  
 CC encoding functions to enable transposition of the transposable element  
 CC into the host cell nucleic acid and comprising a marker gene and an  
 CC origin of transfer; and introducing the plasmid from the donor cell to  
 CC the host cell by conjugation. The method is useful in generating genetic  
 CC disruptions in bacterial host cells, especially Streptomyces species, and  
 CC more particularly for generating libraries of bacterial host cells having  
 CC such disruptions. PCR primers ABZ68345-46 were used to amplify the vph  
 CC marker from plasmids of the invention  
 XX  
 SQ Sequence 18 BP; 1 A; 6 C; 6 G; 5 T; 0 U; 0 Other;  
  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
 QY 208 AAGCAGAGACTCGGTG 224  
 DB 17 AAGCAGACCACCGGTG 1  
  
 RESULT 863  
 ACA63889/C  
 ID ACA63889 standard; DNA; 18 BP.  
 XX  
 AC ACA63889;  
 XX  
 DT 16-JUN-2003 (first entry)  
 DE Novel human secreted and transmembrane protein related primer #215.  
 XX  
 KW Human; secreted and transmembrane protein; PRO; antiinflammatory;  
 KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;  
 KW antidiabetic; gene therapy; inflammatory disease; organ failure;  
 KW atherosclerosis; cardiac injury; infertility; birth defect;  
 KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;  
 KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;  
 KW tissue typing; PCR; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PF US2002192706-A1.  
 XX  
 PD 19-DEC-2002.  
 XX  
 PF 24-OCT-2001; 2001US-00999832.  
 XX  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 03-NOV-1997; 97US-0064249P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 10-MAR-1998; 98US-0077450P.  
 PR

PR	11-MAR-1998;	98US-0077632P.	PR	24-AUG-2000;	2000WO-US023328.	PR
PR	11-MAR-1998;	98US-0077641P.	PR	01-DEC-2000;	2000WO-US032678.	PR
PR	11-MAR-1998;	98US-0077649P.	PR	20-DEC-2000;	2000WO-US034956.	PR
PR	12-MAR-1998;	98US-0077791P.	PR	28-FEB-2001;	2001WO-US006520.	PR
PR	13-MAR-1998;	98US-0078004P.	PR	22-MAR-2001;	2001WO-US009552.	PR
PR	17-MAR-1998;	98US-00040220.	PR	25-MAY-2001;	2001WO-US017092.	PR
PR	20-MAR-1998;	98US-0078886P.	PR	01-JUN-2001;	2001WO-US017800.	PR
PR	20-MAR-1998;	98US-0078910P.	PR	20-JUN-2001;	2001WO-US019692.	PR
PR	20-MAR-1998;	98US-0078936P.	PR	29-JUN-2001;	2001WO-US021066.	PR
PR	20-MAR-1998;	98US-0078939P.	PR	09-JUL-2001;	2001WO-US021735.	XX
PR	25-MAR-1998;	98US-0079294P.	PR	(GETH ) GENENTECH INC.		PA
PR	26-MAR-1998;	98US-0079658P.	PR	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;		XX
PR	27-MAR-1998;	98US-0079663P.	PR	Ferrara N, Filvaroff E, Fong S, Garber H, Gerritsen ME;		PI
PR	27-MAR-1998;	98US-0079664P.	PR	Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Shelton DL;		PI
PR	27-MAR-1998;	98US-0079728P.	PR	Kijavini IJ, Ruo SS, Napier MA, Pan J, Paoni NF, Roy MA, Williams PM, Wood WI;		PI
PR	27-MAR-1998;	98US-0079786P.	PR	Stewart TA, Tumas D, Williams PM, Wood WI;		PI
PR	30-MAR-1998;	98US-0079920P.	PR	WPI; 2003-328860/31.		XX
PR	30-MAR-1998;	98US-0079923P.	DR			DR
PR	31-MAR-1998;	98US-0080105P.	XX	New secreted and transmembrane nucleic acids and polypeptides, designated		XX
PR	31-MAR-1998;	98US-0080107P.	XX	as PRO, useful for treating inflammation, organ failure, atherosclerosis,		PT
PR	31-MAR-1998;	98US-0080165P.	PT	cardiac injury, infertility, birth defects, premature aging, AIDS, or		PT
PR	31-MAR-1998;	98US-0080194P.	PT	cancer.		PT
PR	01-APR-1998;	98US-0080327P.	XX	Example 95; Page 173; 453pp; English.		XX
PR	01-APR-1998;	98US-0080328P.	PS			PS
PR	01-APR-1998;	98US-0080333P.	XX	The invention describes an isolated nucleic acid (I) comprising, or which		XX
PR	01-APR-1998;	98US-0080334P.	XX	is at least 80 % sequence identity to, or the full-length coding sequence		CC
PR	08-APR-1998;	98US-0081049P.	CC	of, any of 118 300-2100 nucleotide sequences, which encodes its		CC
PR	08-APR-1998;	98US-0081070P.	CC	corresponding PRO polypeptide selected from 118 100-700 amino acid		CC
PR	08-APR-1998;	98US-0081071P.	CC	sequences, all given in the specification. The nucleic acids and		CC
PR	09-APR-1998;	98US-0081195P.	CC	polypeptides are useful for treating inflammatory diseases, organ		CC
PR	09-APR-1998;	98US-0081203P.	CC	failure, atherosclerosis, cardiac injury, infertility, birth defects,		CC
PR	09-APR-1998;	98US-0081229P.	CC	premature aging, AIDS, cancer, or diabetic complications. The nucleic		CC
PR	15-APR-1998;	98US-0081817P.	CC	acids are useful as hybridisation probes, in chromosome and gene mapping,		CC
PR	15-APR-1998;	98US-0081819P.	CC	and in generating antisense RNA or DNA. The polypeptides are useful as		CC
PR	15-APR-1998;	98US-0081838P.	CC	pharmaceuticals, diagnostics, biosensors or bioeffectors. Both are useful		CC
PR	15-APR-1998;	98US-0081952P.	CC	in tissue typing. This sequence represents a novel human secreted and		CC
PR	15-APR-1998;	98US-0081955P.	CC	transmembrane PRO polypeptide associated primer		CC
PR	21-APR-1998;	98US-0082568P.	XX	Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;		XX
PR	21-APR-1998;	98US-0082569P.	XX			XX
PR	22-APR-1998;	98US-0082700P.	XX	Query Match 2.9%; Score 12.2; DB 1; Length 18;		XX
PR	22-APR-1998;	98US-0082704P.	XX	Best Local Similarity 82.4%; Pred. No. 4.7e+02;		XX
PR	22-APR-1998;	98US-0082797P.	XX	Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;		XX
PR	22-APR-1998;	98US-0082804P.	XX			XX
PR	23-APR-1998;	98US-0082796P.	XX	Qy 149 GGAGCGCGGTTCCGACT 165		Qy
PR	23-APR-1998;	98US-0082796P.	XX	Db 17 GGAGTCGACTTCCACT 1		Db
PR	20-OCT-1998;	98WO-US021141.	XX			XX
PR	20-NOV-1998;	98WO-US024855.	XX	RESULT 864		XX
PR	05-JAN-1999;	99WO-US000106.	XX	ACA72053/c		XX
PR	08-MAR-1999;	99WO-US0005028.	XX	ID ACA72053 standard; DNA; 18 BP.		XX
PR	10-MAR-1999;	99WO-US0005190.	XX	AC ACA72053;		XX
PR	14-MAY-1999;	99WO-US010733.	XX	XX 11-AUG-2003 (first entry)		XX
PR	02-JUN-1999;	99WO-US012252.	XX	Human PRO polypeptide associated oligonucleotide SEQ ID NO 519.		XX
PR	30-NOV-1999;	99WO-US028313.	XX			XX
PR	02-DEC-1999;	99WO-US028551.	XX	Human; ds; thrombolytic agent; interferon; interleukin; cytokine;		XX
PR	02-DEC-1999;	99WO-US028565.	XX	erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;		XX
PR	16-DEC-1999;	99WO-US030095.	XX	apoptosis related condition; AIDS; amyotrophic lateral sclerosis; disease;		XX
PR	30-DEC-1999;	99WO-US031243.	XX	inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;		XX
PR	30-DEC-1999;	99WO-US031274.	XX	gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;		XX
PR	05-JAN-2000;	2000WO-US000219.	XX	hypertension; myocardial ischaemia; kidney disease; carcinogenesis;		XX
PR	06-JAN-2000;	2000WO-US000277.	XX	glomerulonephritis; lung disease; pulmonary hypertension; preclampsia;		XX
PR	06-JAN-2000;	2000WO-US000376.	XX	bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;		XX
PR	11-FEB-2000;	2000WO-US0003565.	XX	inflammatory bowel disease; reproductive disorder; premature labour.		XX
PR	18-FEB-2000;	2000WO-US0004341.	XX			XX
PR	24-FEB-2000;	2000WO-US0005004.	XX			XX
PR	02-MAR-2000;	2000WO-US0005841.	XX			XX
PR	10-MAR-2000;	2000WO-US0006319.	XX			XX
PR	21-MAR-2000;	2000WO-US0007532.	XX			XX
PR	30-MAR-2000;	2000WO-US0008439.	XX			XX
PR	17-MAY-2000;	2000WO-US013705.	XX			XX
PR	22-MAY-2000;	2000WO-US014042.	XX			XX
PR	30-MAY-2000;	2000WO-US014941.	XX			XX
PR	02-JUN-2000;	2000WO-US015264.	XX			XX
PR	28-JUL-2000;	2000WO-US020710.	XX			XX

OS	Homo sapiens.	
XX	US2002177553-A1.	
EN		
XX	28-NOV-2002.	
PD		
PF	15-OCT-2001; 2001US-00978192.	
XX		
XX	17-OCT-1997; 97US-0062250P.	
PR	03-NOV-1997; 97US-0064249P.	
PR	13-NOV-1997; 97US-0065311P.	
PR	21-NOV-1997; 97US-0066364P.	
PR	10-MAR-1998; 98US-0077450P.	
PR	11-MAR-1998; 98US-0077632P.	
PR	11-MAR-1998; 98US-0077641P.	
PR	11-MAR-1998; 98US-0077649P.	
PR	13-MAR-1998; 98US-0077791P.	
PR	13-MAR-1998; 98US-0078004P.	
PR	17-MAR-1998; 98US-00804220.	
PR	20-MAR-1998; 98US-0078886P.	
PR	20-MAR-1998; 98US-0078910P.	
PR	20-MAR-1998; 98US-0078936P.	
PR	20-MAR-1998; 98US-0078939P.	
PR	25-MAR-1998; 98US-0079234P.	
PR	26-MAR-1998; 98US-0079556P.	
PR	27-MAR-1998; 98US-0079663P.	
PR	27-MAR-1998; 98US-0079664P.	
PR	27-MAR-1998; 98US-0079689P.	
PR	27-MAR-1998; 98US-0079728P.	
PR	27-MAR-1998; 98US-0079786P.	
PR	30-MAR-1998; 98US-0079920P.	
PR	30-MAR-1998; 98US-0079923P.	
PR	26-JUN-1998; 98US-00105413.	
PR	07-OCT-1998; 98US-00168978.	
PR	07-OCT-1998; 98US-00211141.	
PR	02-NOV-1998; 98US-00184216.	
PR	06-NOV-1998; 98US-00187368.	
PR	20-NOV-1998; 98US-0024855.	
PR	07-DEC-1998; 98US-00202054.	
PR	22-DEC-1998; 98US-00218517.	
PR	05-JAN-1999; 99US-00000106.	
PR	05-MAR-1999; 99US-00254465.	
PR	08-MAR-1999; 99US-00050028.	
PR	10-MAR-1999; 99US-00265686.	
PR	10-MAR-1999; 99US-00050190.	
PR	12-MAR-1999; 99US-00267213.	
PR	12-APR-1999; 99US-00284231.	
PR	14-MAY-1999; 99US-00311832.	
PR	14-MAY-1999; 99US-00107033.	
PR	02-JUN-1999; 99US-0012252.	
PR	25-AUG-1999; 99US-00380137.	
PR	25-AUG-1999; 99US-00380138.	
PR	25-AUG-1999; 99US-00380142.	
PR	30-NOV-1999; 99US-0028213.	
PR	02-DEC-1999; 99US-00288551.	
PR	02-DEC-1999; 99US-00288565.	
PR	16-DEC-1999; 99US-0030095.	
PR	30-DEC-1999; 99US-00311243.	
PR	05-JAN-2000; 99US-00311274.	
PR	05-JAN-2000; 2000US-00002019.	
PR	06-JAN-2000; 2000US-00002377.	
PR	06-JAN-2000; 2000US-00003376.	
PR	11-FEB-2000; 2000US-00003565.	
PR	18-FEB-2000; 2000US-00004341.	
PR	24-FEB-2000; 2000US-00005004.	
PR	02-MAR-2000; 2000US-00005841.	
PR	10-MAR-2000; 2000US-0006319.	
PR	21-MAR-2000; 2000US-0007532.	
PR	30-MAR-2000; 2000US-0008439.	
PR	17-MAY-2000; 2000US-0013705.	
PR	22-MAY-2000; 2000US-0014042.	
PR	30-MAY-2000; 2000US-0014941.	
PR	02-JUN-2000; 2000US-0015264.	
PR		
PR	28-JUL-2000; 2000WO-US020710.	
PR	24-AUG-2000; 2000WO-US023328.	
PR	08-NOV-2000; 2000US-00709238.	
PR	27-NOV-2000; 2000US-00723749.	
PR	01-DEC-2000; 2000WO-US032678.	
PR	20-DEC-2000; 2000US-00747259.	
PR	20-DEC-2000; 2000WO-US034956.	
PR	28-FEB-2001; 2001WO-US006520.	
PR	22-MAR-2001; 2001US-00816744.	
PR	22-MAR-2001; 2001US-00816920.	
PR	22-MAR-2001; 2001WO-US009552.	
PR	10-MAY-2001; 2001US-00854308.	
PR	10-MAY-2001; 2001US-00854280.	
PR	25-MAY-2001; 2001WO-US017092.	
PR	01-JUN-2001; 2001US-00872035.	
PR	01-JUN-2001; 2001WO-US017800.	
PR	14-JUN-2001; 2001US-00874503.	
PR	15-JUN-2001; 2001US-00882636.	
PR	19-JUN-2001; 2001US-00886342.	
PR	20-JUN-2001; 2001WO-US019692.	
PR	29-JUN-2001; 2001WO-US021086.	
PR	09-JUL-2001; 2001WO-US021735.	
PR	30-JUL-2001; 2001US-00918585.	
XX		
PA	(GETH ) GENENTECH INC.	
XX		
PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;	
PI	Godard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;	
PI	Kljarin IJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Shelton DL;	
PI	Stewart TA, Tumas D, Williams PW, Wood WI;	
XX		
DR	WPI; 2003-328499/31.	
XX		
PT	New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as	
PT	pharmaceuticals, diagnostics, biosensors and bioreactors, for identifying	
PT	modulators of receptor-ligand interactions.	
XX		
PS	Disclosure; SEQ ID NO 519; 55pp; English.	
XX		
CC	The invention relates to an isolated secreted and transmembrane	
CC	polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful	
CC	in PRO polypeptide detection methods. The PRO polypeptide is useful for	
CC	linking a bioactive molecule to a cell. The PRO polypeptide or an	
CC	antibody against it is useful for modulating a biological activity of a	
CC	cell. The PRO polypeptide is useful in industrial applications including	
CC	pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO	
CC	polypeptide is also useful as a thrombolytic agent, interferon,	
CC	interleukin, erythropoietin, colony stimulating factor and other	
CC	cytokines. The PRO polypeptide is useful for treating diseases such as	
CC	cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,	
CC	amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,	
CC	atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,	
CC	Parkinson's disease; cardiovascular disease e.g. hypertension and	
CC	myocardial ischaemia; kidney disease e.g. renal failure and	
CC	glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial	
CC	asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory	
CC	bowel disease; reproductive disorders e.g. premature labour and	
CC	preclampsia; carcinogenesis. The present sequence represents a PRO	
CC	polypeptide associated oligonucleotide of the invention. Note: The	
CC	sequence data for this patent did not form part of the printed	
CC	specification but was obtained in electronic format directly from USPTO	
CC	at seqdata.uspto.gov/sequence.html?DocID=20020177553	
XX		
SQ	Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;	
	Query Match 2.9%; Score 12.2; DB 1; Length 18;	
	Best Local Similarity 82.4%; Pred. No. 4.7e+02;	
	Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
QY	149 GGAGGCGCGCTTCGACT 165	
DB	17 GGAGGTCGACTTCCACT 1	





CC mapping, in the generation of antisense RNA and DNA, in the preparation  
 CC of PRO polypeptides, for generating transgenic animals or knockout  
 CC animals, for the genetic analysis of individuals with genetic disorders,  
 CC and in gene therapy. The present sequence represents a PCR primer used in  
 CC the examples of the present invention. Note: The sequence data for this  
 CC patent was obtained in electronic format directly from the USPTO web site  
 CC at [seqdata.uspto.gov/psipsiDIdentify.html](http://seqdata.uspto.gov/psipsiDIdentify.html)

XX  
 SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGGCTTCACT 165  
 |||||  
 Db 17 GGAGGCTCACTCACT 1

RESULT 866  
 ACC45656/c  
 ID ACC45656 standard; DNA; 18 BP.

XX  
 AC ACC45656;

XX  
 DT 02-JUN-2003 (first entry)

XX  
 DE Human HEM STS marker forward primer #118.

XX  
 KW Human; high bone mass; HEM; LRP5; LRP6; transgenic; bone mass modulation;  
 KW gene therapy; bone density modulation; bone strength; trabecular number;  
 KW bone size; bone tissue connectivity; bone disease; osteoporosis; PCR;  
 KW osteomalacia; rickets; Paget's disease; neoplasm of the bone; primer; ss.

XX  
 OS Homo sapiens.

XX  
 FN WO200292764-A2.

XX  
 PN 21-NOV-2002.

XX  
 PD 13-MAY-2002; 2002WO-US014876.

XX  
 PP 11-MAY-2001; 2001US-0290071P.

XX  
 PR 17-MAY-2001; 2001US-0291311P.

XX  
 PR 01-FEB-2002; 2002US-0353058P.

XX  
 PR 04-MAR-2002; 2002US-0361293P.

XX  
 PA (GENO-) GENOME THERAPEUTICS CORP.

XX  
 PA (AWHP) WYETH.

XX  
 PI Babi J P, Bex FJ, Yaworsky PJ, Bodine PV;

XX  
 DR WPI; 2003-129278/12.

XX  
 PT New transgenic animals (e.g. mice), useful as models for studying bone  
 PT density modulation, developing drugs for treating or preventing bone  
 PT diseases (e.g. osteoporosis), or diagnosing diseases characterized by  
 PT reduced bone density.

XX  
 PS Disclosure; Page 55; 603pp; English.

XX  
 CC The invention relates to novel transgenic animals expressing the high  
 CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene,  
 CC comprising an alteration of the gene encoding LRP5 or LRP6, or expressing  
 CC an LRP5 that is modulated by an altered gene control sequence introduced  
 CC by homologous or non-homologous recombination. The transgenic animals are  
 CC for the study of bone density modulation or bone mass modulation. The  
 CC invention has osteopathic and cytostatic activity. The polynucleotides of  
 CC the invention may have a use in gene therapy. The transgenic animals and  
 CC nucleic acids are for the study of bone density modulation, where the  
 CC bone mass is modulated relative to non-transgenic animals of the same  
 CC species in more than one parameter selected from bone density, bone  
 CC strength, trabecular number, bone size, or bone tissue connectivity. The

CC transgenic animals, nucleic acids and methods are useful for identifying  
 CC molecules involved in bone development, and for developing pharmaceutical  
 CC compositions, which may be employed for treating or preventing bone  
 CC diseases, e.g. osteoporosis, osteomalacia, rickets, Paget's disease, or  
 CC neoplasms of the bone. The transgenic animals and nucleic acids are also  
 CC useful in methods for diagnosing diseases involved in bone development, is  
 CC or characterized by reduced bone density or mass. The present sequence, is  
 CC used in the exemplification of the invention

XX  
 SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GGCCAGGAGTGCAACTG 17  
 |||||  
 Db 18 GGGCAGGAGTGACTCTG 2

RESULT 867  
 ABX75208/c  
 ID ABX75208 standard; DNA; 18 BP.

XX  
 AC ABX75208;

XX  
 DT 25-MAR-2003 (first entry)

XX  
 DE Human 216 gene allele specific oligonucleotide probe #39.

XX  
 KW Human; mouse; ss; probe; gene 216; antiasthmatic; antiinflammatory;  
 KW anorectic; chromosome 20p13-p12; single nucleotide polymorphism; SNP;  
 KW gene therapy; respiratory disease; asthma; obesity;  
 KW bronchial hyper-responsiveness; chronic obstructive pulmonary disease;  
 KW adult respiratory distress syndrome; inflammatory bowel syndrome.

XX  
 OS Homo sapiens.

XX  
 PN WO200283077-A2.

XX  
 PD 24-OCT-2002.

XX  
 PF 15-APR-2002; 2002WO-US012063.

XX  
 PR 13-APR-2001; 2001US-00834597.

XX  
 PR 13-APR-2001; 2001WO-US012245.

XX  
 PA (SCHE) SCHERING CORP.

XX  
 PA (GENO-) GENOME THERAPEUTICS CORP.

XX  
 PI Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;

XX  
 PI Simon J, Allen K, Pandit S;

XX  
 DR WPI; 2003-092960/08.  
 PT New isolated gene 216 nucleic acids, useful for diagnosing, preventing or  
 PT treating a disorder, such as asthma, bronchial hyper-responsiveness,  
 PT chronic obstructive pulmonary disease, obesity or inflammatory bowel  
 PT syndrome.

XX  
 PS Example 10; Page 166; 650pp; English.

XX  
 CC This invention relates to a novel isolated nucleic acid, gene 216,  
 CC identified from human chromosome 20p13-p12. The invention also discloses  
 CC regions of the 216 gene that contain single nucleotide polymorphisms  
 CC (SNPs) which may be used as markers for disease susceptibility or  
 CC severity. The nucleotides of the invention may have antiasthmatic,  
 CC antiinflammatory or anorectic activities and may be used in gene therapy.  
 CC The nucleic acids, antibodies or its fragments are useful for diagnosing,  
 CC preventing or treating a disorder, such as respiratory diseases (e.g.  
 CC asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary  
 CC disease or adult respiratory distress syndrome), obesity, or inflammatory  
 CC bowel syndrome. The nucleic acids are also useful for identifying

CC increased susceptibility of a subject to the disorders mentioned. The  
 CC nucleic acids can also be used as primers and templates for the  
 CC recombinant production of disorder-associated peptides or polypeptides,  
 CC for chromosome and gene mapping, or for tissue distribution studies. The  
 CC present sequence represents a gene 216 specific oligonucleotide probe  
 CC used in the scope of the invention  
 XX  
 SQ Sequence 18 BP; 1 A; 3 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 92 CATCACCACGCTGTGACC 108  
 |||||  
 Db 17 CAGCACCACGCTGACC 1

RESULT 868  
 ABZ79946/c  
 ID ABZ79946 standard; DNA; 18 BP.  
 XX  
 AC ABZ79946;  
 XX  
 DT 19-MAY-2003 (first entry)  
 DE  
 DE Mycobacterium tuberculosis rps1 PCR primer SEQ ID NO:16.

XX Mycobacterium tuberculosis; mutT2; alkA; ogt; Rv3908; mutY; Rv3909;  
 KW detection; multidrug resistance; multiple drug resistance; MDR;  
 KW infection; PCR primer; ss.  
 XX  
 OS Mycobacterium tuberculosis.  
 OS Synthetic.

XX WO2003016562-A2.  
 PN  
 PD 27-FEB-2003.  
 XX  
 PF 14-AUG-2002; 2002WO-EP009679.  
 XX  
 PR 14-AUG-2001; 2001US-0311824P.  
 PR 21-AUG-2001; 2001US-0313523P.  
 XX  
 PA (INSP ) INST PASTEUR.  
 XX  
 PI Gicquel B;  
 DR WPI; 2003-256711/25.  
 XX

PT Predicting the epidemic character of a Mycobacterium tuberculosis isolate  
 PT and/or the acquisition of multiple drug resistance (MDR) by the isolate  
 PT by detecting an alteration in the DNA repair system of the isolate.  
 XX  
 PS Disclosure; Page 17; 83pp; English.

XX The present invention describes a method for predicting the epidemic  
 CC character of a Mycobacterium tuberculosis isolate and/or a selective  
 CC advantage to be maintained in the host and/or the acquisition of multiple  
 CC drug resistance (MDR) by the isolate comprising detecting an alteration  
 CC in the DNA repair system of the isolate. Also described: (1) detecting a  
 CC Mycobacterium tuberculosis strain with a MDR phenotype; (2) a  
 CC polynucleotide; (3) a kit for detecting Mycobacterium tuberculosis; (4)  
 CC an Escherichia coli strain containing the plasmid pMYC2501; and (5)  
 CC detecting in a patient infected by Mycobacterium tuberculosis a higher  
 CC risk of being unable to eliminate the bacillus or of developing MDR  
 CC tuberculosis. The method is useful for predicting the epidemic character  
 CC of a Mycobacterium tuberculosis isolate and/or a selective advantage to  
 CC be maintained in the host and/or the acquisition of MDR by the isolate.  
 CC The present sequence represents a PCR primer for M. tuberculosis rps1,  
 CC which is used in the exemplification of the present invention  
 XX  
 SQ Sequence 18 BP; 4 A; 5 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 282 GGCACCAAGCTGTGAA 298  
 |||||  
 Db 18 GTCACCCAGTGTGAA 2

RESULT 869  
 ACA66434/c  
 ID ACA66434 standard; DNA; 18 BP.  
 XX  
 AC ACA66434;  
 XX  
 DT 24-JUN-2003 (first entry)  
 DE  
 DE Human secreted/transmembrane protein PRO298 PCR primer #3.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; primer;  
 KW malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma;  
 KW leukaemia; lymphoma; inflammatory disease; necrosis; atherosclerosis;  
 KW infertility; premature aging; psoriasis; inflammatory disease;  
 KW renal disease; arthritis; immune-mediated alopecia; stroke; encephalitis;  
 KW hepatitis; multiple sclerosis; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003004102-A1.  
 PN  
 XX  
 PD 02-JAN-2003.  
 XX  
 PF 15-OCT-2001; 2001US-00978189.  
 XX  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 03-NOV-1997; 97US-0064249P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 10-MAR-1998; 98US-0077450P.  
 PR 11-MAR-1998; 98US-0077632P.  
 PR 11-MAR-1998; 98US-0077641P.  
 PR 11-MAR-1998; 98US-0077649P.  
 PR 12-MAR-1998; 98US-0077791P.  
 PR 13-MAR-1998; 98US-0078004P.  
 PR 17-MAR-1998; 98US-00040220.  
 PR 20-MAR-1998; 98US-0078866P.  
 PR 20-MAR-1998; 98US-0078910P.  
 PR 20-MAR-1998; 98US-0078936P.  
 PR 20-MAR-1998; 98US-0078939P.  
 PR 25-MAR-1998; 98US-0079294P.  
 PR 26-MAR-1998; 98US-0079656P.  
 PR 26-MAR-1998; 98US-0079663P.  
 PR 27-MAR-1998; 98US-0079664P.  
 PR 27-MAR-1998; 98US-0079689P.  
 PR 27-MAR-1998; 98US-0079728P.  
 PR 27-MAR-1998; 98US-0079786P.  
 PR 30-MAR-1998; 98US-0079920P.  
 PR 30-MAR-1998; 98US-0079923P.  
 PR 26-JUN-1998; 98US-00105413.  
 PR 07-OCT-1998; 98US-00168978.  
 PR 07-OCT-1998; 98WO-US021141.  
 PR 06-NOV-1998; 98US-00184216.  
 PR 06-NOV-1998; 98US-00187368.  
 PR 06-NOV-1998; 98US-00187368.  
 PR 20-NOV-1998; 98WO-US024855.  
 PR 20-NOV-1998; 98US-00202054.  
 PR 22-DEC-1998; 98US-00218517.  
 PR 05-JAN-1999; 99WO-US000106.  
 PR 05-MAR-1999; 99US-00254465.  
 PR 08-MAR-1999; 99WO-US005028.  
 PR 10-MAR-1999; 99US-00265686.  
 PR 10-MAR-1999; 99WO-US005190.  
 PR 12-MAR-1999; 99US-00267213.



PR 11-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 20-MAR-1998; 98US-0078886P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079689P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081223P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 22-APR-1998; 98US-0082804P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083543P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083558P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085689P.  
PR 15-MAY-1998; 98US-0085697P.

PR 15-MAY-1998; 98US-0085700P.  
PR 15-MAY-1998; 98US-0085704P.  
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PR 22-MAY-1998; 98US-0086414P.  
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PR 11-SEP-1998; 98US-0100038P.  
PR 20-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98US-0109304P.  
PR 22-DEC-1998; 98WO-US024855.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 98WO-US000106.  
PR 08-MAR-1999; 98WO-US005028.  
PR 12-MAR-1999; 98WO-US005190.  
PR 12-MAR-1999; 98US-0123957P.  
PR 29-MAR-1999; 98US-0126773P.  
PR 21-APR-1999; 98US-0130232P.  
PR 26-APR-1999; 98US-0131022P.  
PR 28-APR-1999; 98US-0131445P.  
PR 14-MAY-1999; 98US-0134287P.  
PR 14-MAY-1999; 98WO-US010733.  
PR 14-MAY-1999; 98WO-US012252.  
PR 16-JUN-1999; 98US-0139557P.  
PR 23-JUN-1999; 98US-0141037P.  
PR 07-JUL-1999; 98US-0142680P.  
PR 26-JUL-1999; 98US-0145698P.  
PR 28-JUL-1999; 98US-0146222P.  
PR 29-OCT-1999; 98US-0162506P.  
PR 30-NOV-1999; 98WO-US028313.  
PR 02-DEC-1999; 98WO-US028551.  
PR 16-DEC-1999; 98WO-US028565.  
PR 30-DEC-1999; 98WO-US030095.  
PR 30-DEC-1999; 98WO-US031243.  
PR 30-DEC-1999; 98WO-US031274.  
PR 03-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 28-AUG-2000; 2000WO-US023328.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 22-MAR-2001; 2001WO-US009552.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.

(GETH ) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-521814/49.  
XX  
XX New isolated PRO polypeptides for example extracellular, secreted and  
PT membrane bound proteins, useful for modulating the biological activities  
PT of cells and for treating, for example diabetes, cancer, rheumatoid  
PT arthritis, and hearing loss.  
XX  
XX Example 95; Page 180; 461pp; English.  
XX  
XX The invention describes an isolated secreted and transmembrane (PRO)  
CC polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993  
CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are  
CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is  
CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is  
CC useful for linking a bioactive molecule to a cell expressing a PRO337  
CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a  
CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a  
CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739  
CC polypeptide, and PRO735, PRO700 and PRO739 polypeptides are useful for

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 149 GGAGGCGCGCTTCGACT 165  
DB 17 GGAGTGCATTCACCT 1

RESULT 871  
ACD30035/c  
ID ACD30035 standard; DNA; 18 BP.  
XX  
XX ACD30035;  
XX  
DT 08-SEP-2003 (first entry)  
XX  
XX Novel human secreted and transmembrane protein related primer #217.  
XX Human; secreted and transmembrane protein; PRO; cell death; neuropathy;  
KW peripheral neuropathy; diabetic peripheral neuropathy;  
KW AIDS-associated neuropathy; Charcot-Marie-Tooth disease;  
KW Refsum's disease; Abetalipoproteinemia; Tangier disease;  
KW Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;  
KW Dejerine-Sottas syndrome; chromosome mapping; gene therapy;  
XX PCR; primer; ss.  
XX  
XX Homo sapiens.  
XX  
XX US2003050240-A1.  
XX  
XX 13-MAR-2003.  
XX  
XX 16-OCT-2001; 2001US-00978403.  
XX  
XX 17-OCT-1997; 97US-0062250P.  
XX 03-NOV-1997; 97US-0064249P.  
XX 13-NOV-1997; 97US-0065311P.  
XX 21-NOV-1997; 97US-0066364P.  
XX 10-MAR-1998; 98US-0077450P.  
XX 11-MAR-1998; 98US-0077632P.  
XX 11-MAR-1998; 98US-0077641P.  
XX 11-MAR-1998; 98US-0077649P.  
XX 12-MAR-1998; 98US-0077791P.  
XX 13-MAR-1998; 98US-0078004P.  
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Db 17 GGAGGTCGACTTCGACT 1

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XX
XX ACD29450;
XX
XX 27-AUG-2003 (first entry)
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XX
XX Human; secreted and transmembrane protein; PRO; viral infection;
KW tumour growth; retinal disorder; injury; sight loss;
KW retinitis pigmentosa; age-related macular degeneration;
KW sport-related joint problem; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;
KW kidney disorder; mesangial cell function; Berger disease; nephropathy;
KW celiac disease; dermatitis; Crohn disease; neuropathy;
KW cardiac insufficiency disorder; peripheral neuropathy;
KW diabetic peripheral neuropathy; autonomic neuropathy;
KW reduced motility of the gastrointestinal tract;
KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;
KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
KW Refsum's disease; PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX US2003049633-A1.
XX
XX 13-MAR-2003.
XX
XX 16-OCT-2001; 2001US-00978585.
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DB 17 GGAGGTCGACTTCCACT 1  
RESULT 874  
ADA24424/C  
ID ADA24424 standard; DNA; 18 BP.  
XX  
AC ADA24424;  
XX  
DT 20-NOV-2003 (first entry)  
XX PCR primer #1 for generating human TSL1L1 probe.  
DE Human tumour suppressor gene; TSL1L1; hTSL1L1; cancer; carcinoma;  
KW pre-critical stage; cancer therapy; chemical therapy; radiotherapy;  
KW TSLC1; PCR; primer; ss.  
XX Homo sapiens.  
OS  
XX US2003109016-A1.  
PN  
XX 12-JUN-2003.  
PD  
XX 29-AUG-2002; 2002US-00230335.  
PF  
XX 11-OCT-2001; 2001JP-00313966.  
PR  
XX (PRES-) PRESIDENT NAT CANCER CENT.  
PA (BMLB-) BML INC.  
PA  
XX Murakami Y, Nomura S;  
PI  
XX WPI; 2003-626209/59.  
DR  
XX New protein encoded by tumor suppressor gene, designated as TSSL1 gene,  
PT useful for preventing or treating cancers, predicting of prognosis of  
PT cancer therapy, or diagnosing carcinoma in pre-clinical stages.  
XX  
PS Example; Page 6; 20pp; English.  
XX  
CC The present invention relates to the isolation of a human tumour  
CC suppressor gene, TSL1 (hTSL1), and the encoding protein. The TSL1 gene  
CC and protein are useful for preventing and treating cancers. The gene is  
CC useful for diagnosing carcinoma in pre-critical stages, qualitative  
CC diagnosis of carcinoma, predicting the prognosis of cancer therapy, and  
CC forecasting the sensitivity of a carcinoma to chemical therapy,  
CC radiotherapy and gene therapy. The TSL1 protein is homologous the TSLC1  
CC protein. The present sequence represents a PCR primer used to generate a  
CC probe for human TSL1L1 cDNA.  
XX  
SQ Sequence 18 BP; 5 A; 7 C; 4 G; 2 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
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PR 30-MAR-2000; 2000WO-US007532.  
PR 17-MAY-2000; 2000WO-US008439.  
PR 22-MAY-2000; 2000WO-US013705.  
PR 30-MAY-2000; 2000WO-US014042.  
PR 02-JUN-2000; 2000WO-US014941.  
PR 28-JUL-2000; 2000WO-US015264.  
PR 24-AUG-2000; 2000WO-US020710.  
PR 08-NOV-2000; 2000US-00709238.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 28-FEB-2001; 2000WO-US034956.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001WO-US009552.  
PR 10-MAY-2001; 2001US-00854208.  
PR 25-MAY-2001; 2001US-00854280.  
PR 01-JUN-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.

ID ADB98354 standard; DNA; 18 BP.  
XX ADB98354;  
AC  
XX 04-DEC-2003 (first entry)  
DT  
XX Sequence tagged site #235 used to prepare Zmax1 (LRP5) gene region map.  
DE  
XX Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6;  
KW bone mass modulation; osteoporosis; STS; sequence tagged site; ds.  
KW  
XX Homo sapiens.  
OS  
XX WO200292000-A2.  
PN  
XX 21-NOV-2002.  
PD  
XX 13-MAY-2002; 2002WO-US014877.  
XX  
XX 11-MAY-2001; 2001US-0290071P.  
PR 17-MAY-2001; 2001US-0291311P.  
PR 01-FEB-2002; 2002US-0353058P.  
PR 04-MAR-2002; 2002US-0361293P.  
XX  
XX (GENO-) GENOME THERAPEUTICS CORP.  
PA (AMHP) WYETH.  
XX  
XX Allen K, Anisowicz A, Graham JR, Morales A, Yaworsky PJ, Liu W;  
PI WPI; 2003-129214/12.  
DR  
XX New nucleic acid comprising a mutation in LRP5 or LRP6, useful for  
PT diagnosing a HBM-like phenotype in a subject and for preparing a  
PT composition for modulating bone mass and/or lipid levels in a subject  
PT suffering from e.g. osteoporosis.  
XX  
PS Example 2; Page 62; 629pp; English.  
XX  
CC The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and  
CC LRP6 mutants, which results in a HBM-like phenotype when expressed in a  
CC cell. The HBM-like phenotype results in bone mass modulation and/or lipid  
CC level modulation. The invention is useful for diagnosing a HBM-like  
CC phenotype in a subject and for preparing a composition for modulating  
CC bone mass and/or lipid levels in a subject suffering from e.g.  
CC osteoporosis. The present sequence is a sequence tagged site (STS)  
CC marker, which was used to prepare a physical map of the Zmax1 (LRP5) gene  
CC region.  
XX  
SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1 GGCCAGGAGTGAACTG 17  
Db 18 GGCCAGGAGTGACTCTG 2  
RESULT 876  
ADB74025/c  
ID ADB74025 standard; DNA; 18 BP.  
XX  
AC ADB74025;  
XX  
XX 04-DEC-2003 (first entry)  
DT  
XX Human PRO DNA PCR primer #218.  
DE  
XX Human; PRO polypeptide; secreted protein; transmembrane protein;  
KW cell death; neuropathy; neuropathy related disease;  
KW Charcot-Marie-Tooth disorder; Reifsum's disease; Krabbe's disease;  
KW chromosome mapping; gene mapping; genetic disorder; septic shock;

KW antibacterial; immunosuppressive; neuroprotective; PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX US2003045462-A1.  
PN  
XX 06-MAR-2003.  
PD  
XX 16-OCT-2001; 2001US-00978608.  
XX  
XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.  
PR 17-MAR-1998; 98US-00040220.  
PR 20-MAR-1998; 98US-0078886P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079864P.  
PR 27-MAR-1998; 98US-0079869P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 22-APR-1998; 98US-0082804P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083558P.  
PR 29-APR-1998; 98US-0083559P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.

PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085699P.  
PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 15-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086414P.  
PR 22-MAY-1998; 98US-0086430P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087105P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-00105413.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98US-00158978.  
PR 07-OCT-1998; 98US-00211141.  
PR 02-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98US-0024855.  
PR 07-DEC-1998; 98US-00202054.  
PR 22-DEC-1998; 98US-00218517.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99US-00000106.  
PR 05-JAN-1999; 99US-00254465.  
PR 08-MAR-1999; 99US-0005028.  
PR 10-MAR-1999; 99US-00265686.  
PR 10-MAR-1999; 99US-00051590.  
PR 12-MAR-1999; 99US-00267213.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 12-APR-1999; 99US-00284291.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131022P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-00311832.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99US-00310733.  
PR 02-JUN-1999; 99US-0012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 25-AUG-1999; 99US-00380137.  
PR 25-AUG-1999; 99US-00380138.  
PR 25-AUG-1999; 99US-00380142.  
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PR 02-DEC-1999; 99US-0028565.  
PR 16-DEC-1999; 99US-0030095.

PR 30-DEC-1999; 99US-0031243.  
PR 30-DEC-1999; 99US-0031274.  
PR 05-JAN-2000; 2000US-0000219.  
PR 06-JAN-2000; 2000US-0000277.  
PR 11-JAN-2000; 2000US-0000376.  
PR 16-FEB-2000; 2000US-0003565.  
PR 18-FEB-2000; 2000US-0004341.  
PR 24-FEB-2000; 2000US-0005004.  
PR 02-MAR-2000; 2000US-0005841.  
PR 10-MAR-2000; 2000US-0006319.  
PR 21-MAR-2000; 2000US-0007532.  
PR 30-MAR-2000; 2000US-0008439.  
PR 17-MAY-2000; 2000US-0013705.  
PR 22-MAY-2000; 2000US-0014042.  
PR 30-MAY-2000; 2000US-0014941.  
PR 02-JUN-2000; 2000US-0015264.  
PR 28-JUL-2000; 2000US-0020710.  
PR 24-AUG-2000; 2000US-0023328.  
PR 08-NOV-2000; 2000US-0070928.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000US-0032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000US-0034956.  
PR 28-FEB-2001; 2001US-0006520.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001US-0009552.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
PR 25-MAY-2001; 2001US-00854280.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001US-0017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001US-0019692.  
PR 29-JUN-2001; 2001US-0021066.  
PR 09-JUL-2001; 2001US-0021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
XX (GETH ) GENENTECH INC.

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e-02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGCGCTTCGACT 165  
Db 17 GGAGGTCGACTTCACT 1

RESULT 877  
ADA49752/c  
ID ADA49752 standard; DNA; 18 BP.  
XX  
XX ADA49752;  
AC  
XX  
XX 04-DEC-2003 (first entry)  
XX  
XX HCV antisense oligonucleotide ISIS 10549.

ss; hepatitis C virus; HCV; HCV-associated disease; HCV infection;  
KW fulminant hepatitis; chronic active hepatitis; cirrhosis;  
KW hepatocellular carcinoma; cancer; tumour; lower relapse rate; antisense.  
XX  
OS Hepatitis C virus.  
XX  
XX Key Location/Qualifiers  
PH modified\_base 1..18  
FT /+tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER = phosphorothioate backbone"

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XX  US2003171313-A1.
XX  11-SEP-2003.
XX  11-MAY-2001; 2001US-00853409.
XX  10-SEP-1992; 92US-00945289.
XX  10-SEP-1993; 93WO-JP001293.
XX  09-MAR-1995; 95US-00397220.
XX  30-MAY-1995; 95US-00452841.
XX  17-MAY-1996; 96US-00650093.
XX  10-DEC-1997; 97US-00988321.
XX  18-OCT-2000; 2000US-00690936.
XX  (ANDE/) ANDERSON K P.
XX  (HANE/) HANECAR R C.
XX  (NOZA/) NOZAKI C.
XX  (DORR/) DORR F A.
XX  (KWOH/) KWOH T J.
XX  Anderson KP, Hanecak RC, Nozaki C, Dorr FA, Kwch TJ;
XX  WPI; 2003-697202/66.
XX  New oligonucleotide, useful for preparing a composition for detecting,
XX  treating or preventing HCV-associated disease, e.g. HCV infection,
XX  fulminant hepatitis, chronic active hepatitis, cirrhosis or
XX  hepatocellular carcinoma.
XX  Example 3; Page 11; 21pp; English.
XX  The invention relates to a new hepatitis C virus (HCV) genomic or
XX  messenger RNA antisense oligonucleotide. The oligonucleotide is useful
XX  for preparing a composition for treating or preventing an HCV-associated
XX  disease, e.g., HCV infection, fulminant hepatitis, chronic active
XX  hepatitis, cirrhosis or hepatocellular carcinoma. Also for detection of
XX  HCV, HCV infection and HCV associated diseases. The oligonucleotide gives
XX  a more effective treatment than interferon alone with lower relapse
XX  rates. The present sequence represents a HCV antisense oligonucleotide.
XX  Sequence 18 BP; 2 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
XX  Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX  Best Local Similarity 82.4%; Pred. NO. 4.7e+02;
XX  Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX  QY 261 ACGGTGCACCTGGAGCA 277
XX  DB 18 ACGGTGCACCATGAGCA 2
XX  RESULT 879
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XX  ID ADA49743 standard; DNA; 18 BP.
XX  AC ADA49743;
XX  DT 04-DEC-2003 (first entry)
XX  DE HCV antisense oligonucleotide ISIS 9559.
XX  ss; hepatitis C virus; HCV; HCV-associated disease; HCV infection;
XX  fulminant hepatitis; chronic active hepatitis; cirrhosis;
XX  hepatocellular carcinoma; cancer; tumour; lower relapse rate; antisense.
XX  Hepatitis C virus.
XX  Key Location/Qualifiers
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XX  FT /*tag= a
XX  FT /mod_base= OTHER
XX  FT /note= "OTHER = phosphorothioate backbone"

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XX  US2003171313-A1.
XX  11-SEP-2003.
XX  11-MAY-2001; 2001US-00853409.
XX  10-SEP-1992; 92US-00945289.
XX  10-SEP-1993; 93WO-JP001293.
XX  09-MAR-1995; 95US-00397220.
XX  30-MAY-1995; 95US-00452841.
XX  17-MAY-1996; 96US-00650093.
XX  10-DEC-1997; 97US-00988321.
XX  18-OCT-2000; 2000US-00690936.
XX  (ANDE/) ANDERSON K P.
XX  (HANE/) HANECAR R C.
XX  (NOZA/) NOZAKI C.
XX  (DORR/) DORR F A.
XX  (KWOH/) KWOH T J.
XX  Anderson KP, Hanecak RC, Nozaki C, Dorr FA, Kwch TJ;
XX  WPI; 2003-697202/66.
XX  New oligonucleotide, useful for preparing a composition for detecting,
XX  treating or preventing HCV-associated disease, e.g. HCV infection,
XX  fulminant hepatitis, chronic active hepatitis, cirrhosis or
XX  hepatocellular carcinoma.
XX  Example 3; Page 11; 21pp; English.
XX  The invention relates to a new hepatitis C virus (HCV) genomic or
XX  messenger RNA antisense oligonucleotide. The oligonucleotide is useful
XX  for preparing a composition for treating or preventing an HCV-associated
XX  disease, e.g., HCV infection, fulminant hepatitis, chronic active
XX  hepatitis, cirrhosis or hepatocellular carcinoma. Also for detection of
XX  HCV, HCV infection and HCV associated diseases. The oligonucleotide gives
XX  a more effective treatment than interferon alone with lower relapse
XX  rates. The present sequence represents a HCV antisense oligonucleotide.
XX  Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
XX  Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX  Best Local Similarity 82.4%; Pred. NO. 4.7e+02;
XX  Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX  QY 261 ACGGTGCACCTGGAGCA 277
XX  DB 17 ACGGTGCACCATGAGCA 1
XX  RESULT 878
XX  ADA49743/c
XX  ID ADA49743 standard; DNA; 18 BP.
XX  AC ADA49743;
XX  DT 04-DEC-2003 (first entry)
XX  DE HCV antisense oligonucleotide ISIS 9559.
XX  ss; hepatitis C virus; HCV; HCV-associated disease; HCV infection;
XX  fulminant hepatitis; chronic active hepatitis; cirrhosis;
XX  hepatocellular carcinoma; cancer; tumour; lower relapse rate; antisense.
XX  Hepatitis C virus.
XX  Key Location/Qualifiers
XX  modified_base 1..18
XX  FT /*tag= a
XX  FT /mod_base= OTHER
XX  FT /note= "OTHER = phosphorothioate backbone"

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XX 23-JAN-2003.
XX 12-JUN-2002; 2002WO-EP006440.
XX 13-JUN-2001; 2001NZ-00512341.
XX (FARB ) BAYER AG.
XX Weber O, Friederichs SM, Siegling A, Schlapp T, Mercer AA;
XX Fleming SB;
XX WPI; 2003-221750/21.
XX New polynucleotide and recombinant proteins of Parapoxvirus ovis, useful
XX for manufacturing a medicament for treating virus related disease, viral
XX infections, non-viral infections, proliferative disease or inflammatory
XX disease.
XX Example 1; Page 23; 51pp; English.
XX The invention relates to a novel purified and isolated polynucleotide
XX (N1) of Parapoxvirus ovis (PPVO) comprising a nucleotide sequence (S1,
XX not defined in the specification), or its complementary sequence,
XX fragment or functional variant. A polynucleotide of the invention has
XX virucide, anti-HIV, hepatotropic, antiinflammatory, cytostatic,
XX vulnary, antisthmatic, antiallergic, dermatological, antidiabetic,
XX immunosuppressive, antineumatic, antiarthritic, thyromimetic,
XX protozoacide, amoebicide, and antibacterial activity. The polynucleotides
XX may have a use in gene therapy. The recombinant proteins encoded by the
XX polynucleotides, or recombinant viruses comprising a Vaccinia virus
XX genome and fragments of a PPVO genome are useful for manufacturing
XX pharmaceutical compositions for treating virus related disease (e.g.
XX hepatitis, papillomatosis, herpes virus infections, liver fibrosis, HIV
XX infections or influenza), viral infections, non-viral infections (e.g.
XX infections with mycobacteria, mycoplasma, amoeba or plasmodia),
XX proliferative disease (e.g. cancer, leukaemia, warts or other skin
XX neoplasms), inflammatory disease (e.g. Crohn's disease, COPD, asthma or
XX conditions related to healing of wounds), allergic disease, and/or
XX autoimmune diseases (systemic lupus erythematosus, Sjogren's disease,
XX Hashimoto's thyroiditis, rheumatoid arthritis or diabetes mellitus). The
XX present sequence is used in the exemplification of the invention.
XX
XX Sequence 18 BP; 2 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX Best Local Similarity 82.4%; Pred. No. 4.7e-02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 37 ACGAAGATGGCCACCAC 53
XX ||| ||||| ||||| |||||
XX 17 ACGTACATGGCCACCGC 1
XX
XX RESULT 880
XX ADB54025
XX ID ADB54025 standard; DNA; 18 BP.
XX AC ADB54025;
XX XX
XX DT 04-DEC-2003 (first entry)
XX XX
XX DE Oligonucleotide 17 used to analyse CpG positions within genomic DNA.
XX XX
XX KW colon cell proliferative disorder; non methylated CpG dinucleotide; ss.
XX KW cytostatic; cancer; adenoma; carcinoma; cytosine methylation state; ss.
XX XX
XX OS Unidentified.
XX XX
XX PN WO2003072821-A2.
XX XX
XX PD 04-SEP-2003.
XX XX
XX PF 27-FEB-2003; 2003WO-EP002035.
XX
XX 27-FEB-2002; 2002EP-00004551.
XX (EPIG-) EPIGENOMICS AG.
XX Adorjan P, Burger M, Maier S, Nimmrich I, Becker E, Lesche R;
XX Rujan T, Schmitt A;
XX WPI; 2003-731620/69.
XX Detecting and differentiating between colon cell proliferative disorders
XX associated with a gene or its regulatory regions comprises contacting a
XX target nucleic acid in a biological sample obtained from the subject with
XX a reagent.
XX Claim 39; SEQ ID NO 81; 74pp; English.
XX The invention relates to a novel method for detecting and differentiating
XX between colon cell proliferative disorders associated with at least one
XX gene or its regulatory regions. The method comprises contacting a target
XX nucleic acid in a biological sample obtained from the subject with at
XX least one reagent or a series of reagents, where the reagent or series of
XX reagents distinguishes between methylated and non methylated CpG
XX dinucleotides within the target nucleic acid. The molecules of the
XX invention demonstrate cytostatic activity whilst the method may useful
XX for detecting and differentiating between colon cell proliferative
XX disorders, including cancers such as colon adenoma and colon carcinoma.
XX The PNA (peptide nucleic acid)-oligomers are useful as probes for
XX determining cytosine methylation state or single nucleotide
XX polymorphisms. The current sequence is that of the oligonucleotide of the
XX invention which was used to analyse the CpG positions within the genomic
XX DNA regions. This sequence is not shown within the specification but is
XX taken from Wipoweb.
XX
XX Sequence 18 BP; 4 A; 7 C; 5 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 2.9%; Score 12.2; DB 1; Length 18;
XX Best Local Similarity 82.4%; Pred. No. 4.7e-02;
XX Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 177 GAGTCCCAAGGCACATAT 193
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XX RESULT 881
XX ADB76741/c
XX ID ADB76741 standard; DNA; 18 BP.
XX AC ADB76741;
XX XX
XX DT 04-DEC-2003 (first entry)
XX XX
XX DE Human PRO DNA PCR primer #218.
XX XX
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;
XX KW cell death; neuropathy; neuropathy related disease;
XX KW Charcot-Marie-Tooth disorder; Refsum's disease; Krabbe's disease;
XX KW chromosome mapping; gene mapping; genetic disorder; septic shock;
XX KW antibacterial; immunosuppressive; neuroprotective; PCR; primer; ss.
XX XX
XX OS Homo sapiens.
XX XX
XX PN US2003083248-A1.
XX XX
XX PD 01-MAY-2003.
XX XX
XX PF 16-OCT-2001; 2001US-00978757.
XX XX
XX PN 17-OCT-1997; 97US-0062250P.
XX PR 03-NOV-1997; 97US-0064249P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 21-NOV-1997; 97US-0066364P.

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(GETH ) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;  
PI Ferrara N, Rylvaroff E, Pong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski P, Grimaldi JC, Gurney AL, Hillan KJ;  
PI KJ Javlin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DJ;  
PI Stewart TA, Tunas D, Williams PM, Wood WI;  
XX WPI; 2003-755118/71.  
DR XX  
XX  
XX New PRO polypeptides useful for treating peripheral neuropathy,  
PT neuropathies associated with systemic disease such as post-polio syndrome  
PT or AIDS-associated syndrome.  
XX  
XX Example 95; Page 174; 425pp; English.  
XX  
XX The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
CC polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides are useful for detecting other PRO polypeptides, for linking  
CC bioactive molecules to cells expressing PRO polypeptides, for modulating  
CC biological activities of cells expressing PRO polypeptides, and for  
CC identifying agonists or antagonists. The bioactive molecule maybe a  
CC toxin, radiolabel or antibody, and cause cell death. The PRO polypeptides  
CC are useful for treating neuropathy and neuropathy related diseases such  
CC as Charcot-Marie-Tooth disorder, Refsum's disease, and Krabbe's disease.  
CC The polynucleotide sequences encoding PRO polypeptides are useful as  
CC hybridisation probes, in chromosome and gene mapping, in the generation  
CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGCGCGGCTTCCACT 165  
Db 17 GGAGGTGCGACTTCCACT 1

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KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
XX OS Homo sapiens.  
XX  
XX PN US2003054986-A1.  
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XX PD 20-MAR-2003.  
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XX (GETH ) GENENTECH INC.
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Query Match 2.9%; Score 12.2; DB 1; Length 18;
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KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; retinal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
PN US2003049684-A1.
XX
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Best Local Similarity 82.4%; Pred.No. 4.7e+02;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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XX
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XX
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;
KW auditory; tumour growth; renal disorder; sports-related joint problem;
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW wound healing; hearing loss; primer.
XX
OS Homo sapiens.
XX
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KW	tumour cell proliferation inhibitor;	
KW	secreted and transmembrane protein; PRO; viral infection; wound healing;	
KW	tissue growth; muscle generation; muscle regeneration;	
KW	amyotrophic lateral sclerosis; neuropathy; AIDS-associated neuropathy;	
KW	diabetic peripheral neuropathy; chromosome identification; antagonist;	
KW	tissue typing; immunohistochemical staining; primer; ss.	
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 PA Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Baton DL;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 PI Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX WPI; 2003-596568/56.  
 DR Novel secreted and transmembrane polypeptides and polynucleotides  
 XX encoding them, useful for treating wound healing, tissue growth and  
 PT muscle generation and regeneration, amyotrophic lateral sclerosis or  
 PT neuropathy.

XX Example 95; SEQ ID NO 519; 472pp; English.  
 XX The invention describes an isolated secreted and transmembrane PRO  
 PS polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615  
 CC is useful in biotechnological and medical research, as well as in various  
 CC industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,  
 CC PRO708, PRO320, PRO351, PRO352, PRO381, PRO615, PRO618, PRO772, PRO853,  
 CC PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful  
 CC therapeutically in vivo for lessening the effects of viral infection.  
 CC PRO200 is useful for the treatment of wound healing, tissue growth and  
 CC muscle generation and regeneration. PRO337 is useful for treating  
 CC amyotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or  
 CC diabetic peripheral neuropathy. A polynucleotide (II) encoding (I) is  
 CC useful for generating transgenic animals or knockout animals which are  
 CC useful in the development and screening of therapeutically useful  
 CC reagents, as probes for generating a pool of sequences for identifying  
 CC related PRO coding sequences, and to construct hybridisation probes for  
 CC mapping the gene which encodes the PRO and for the genetic analysis of  
 CC individuals with genetic disorders, for recombinantly expressing (I) and  
 CC for chromosome identification. (I) is useful as molecular marker for  
 CC protein electrophoresis purposes, and as therapeutic agents. (I) is also  
 CC useful for screening compounds to identify those that mimic the PRO  
 CC polypeptide (agonists) or prevent the effect of the PRO polypeptide  
 CC (antagonists). (I) and (II) are useful for tissue typing. PRO antibodies  
 CC are useful for immunohistochemical staining and/or assay of sample  
 CC fluids. Anti-PRO antibodies are useful in diagnostic assays for PRO e.g.  
 CC detecting its expression in specific cells, tissues or serum, and for  
 CC affinity purification of PRO from recombinant cell culture or natural  
 CC sources. This sequence represents a human secreted and transmembrane PRO  
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 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
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 Db 17 GGAGGCGGCTTCGACT 1  
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 XX 18-DEC-2003 (first entry)  
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 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.  
 XX Homo sapiens.  
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PR	26-JUL-1999;	98US-0145698P.
PR	28-JUL-1999;	98US-0146222P.
PR	25-AUG-1999;	99US-00380137.
PR	25-AUG-1999;	99US-00380142.
PR	30-NOV-1999;	99US-0162506P.
PR	02-DEC-1999;	99WO-US028313.
PR	02-DEC-1999;	99WO-US028551.
PR	16-DEC-1999;	99WO-US028565.
PR	30-DEC-1999;	99WO-US030095.
PR	30-DEC-1999;	99WO-US031243.
PR	30-DEC-1999;	99WO-US031274.
PR	05-JAN-2000;	2000WO-US000219.
PR	06-JAN-2000;	2000WO-US000277.
PR	06-JAN-2000;	2000WO-US000376.
PR	11-FEB-2000;	2000WO-US003565.
PR	18-FEB-2000;	2000WO-US004341.
PR	24-FEB-2000;	2000WO-US005004.
PR	02-MAR-2000;	2000WO-US005841.
PR	10-MAR-2000;	2000WO-US006319.
PR	21-MAR-2000;	2000WO-US007532.
PR	30-MAR-2000;	2000WO-US008439.
PR	17-MAY-2000;	2000WO-US013705.
PR	22-MAY-2000;	2000WO-US014042.
PR	30-MAY-2000;	2000WO-US014941.
PR	02-JUN-2000;	2000WO-US015264.
PR	28-JUL-2000;	2000WO-US020710.

PER	20-MAR-1998	98US-00789359P
PER	25-MAR-1998	98US-00792924P
PER	26-MAR-1998	98US-00796356P
PER	27-MAR-1998	98US-00796634P
PER	27-MAR-1998	98US-00796634P
PER	27-MAR-1998	98US-00796634P
PER	27-MAR-1998	98US-00797282P
PER	27-MAR-1998	98US-00797866P
PER	27-MAR-1998	98US-00799202P
PER	30-MAR-1998	98US-00799231P
PER	31-MAR-1998	98US-00801055P
PER	31-MAR-1998	98US-00801071P
PER	31-MAR-1998	98US-00801658P
PER	31-MAR-1998	98US-00801944P
PER	01-APR-1998	98US-00803272P
PER	01-APR-1998	98US-00803282P
PER	01-APR-1998	98US-00803332P
PER	01-APR-1998	98US-00803344P
PER	08-APR-1998	98US-00810439P
PER	08-APR-1998	98US-00810702P
PER	08-APR-1998	98US-00810711P
PER	09-APR-1998	98US-00811955P
PER	09-APR-1998	98US-00812032P
PER	09-APR-1998	98US-00812239P
PER	09-APR-1998	98US-00818171P
PER	15-APR-1998	98US-00818138P
PER	15-APR-1998	98US-00818382P
PER	15-APR-1998	98US-00819322P
PER	15-APR-1998	98US-00819355P
PER	21-APR-1998	98US-00825688P
PER	21-APR-1998	98US-00825692P
PER	22-APR-1998	98US-00827002P
PER	22-APR-1998	98US-00827044P
PER	22-APR-1998	98US-00827377P
PER	22-APR-1998	98US-00828042P
PER	23-APR-1998	98US-00827662P
PER	27-APR-1998	98US-00833362P
PER	28-APR-1998	98US-00833322P
PER	29-APR-1998	98US-00833322P
PER	29-APR-1998	98US-00834495P
PER	29-APR-1998	98US-00834366P
PER	29-APR-1998	98US-00834500P
PER	29-APR-1998	98US-00834500P
PER	29-APR-1998	98US-00834542P
PER	29-APR-1998	98US-00835584P
PER	29-APR-1998	98US-00835589P
PER	30-APR-1998	98US-00835593P
PER	30-APR-1998	98US-00837422P
PER	05-MAY-1998	98US-00844142P
PER	06-MAY-1998	98US-00844414P
PER	06-MAY-1998	98US-00844518P
PER	07-MAY-1998	98US-00845982P
PER	07-MAY-1998	98US-00846002P
PER	07-MAY-1998	98US-00846272P
PER	07-MAY-1998	98US-00846372P
PER	07-MAY-1998	98US-00846332P
PER	07-MAY-1998	98US-00846402P
PER	13-MAY-1998	98US-00846432P
PER	13-MAY-1998	98US-00853232P
PER	13-MAY-1998	98US-00853392P
PER	15-MAY-1998	98US-00855732P
PER	15-MAY-1998	98US-00855802P
PER	15-MAY-1998	98US-00855802P
PER	15-MAY-1998	98US-00855822P
PER	15-MAY-1998	98US-00856892P
PER	15-MAY-1998	98US-00856972P
PER	15-MAY-1998	98US-00857002P
PER	15-MAY-1998	98US-00857042P
PER	18-MAY-1998	98US-00860232P
PER	22-MAY-1998	98US-00863922P
PER	22-MAY-1998	98US-00864142P
PER	22-MAY-1998	98US-00864302P
PER	22-MAY-1998	98US-00864862P

	The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide), a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid), a host cell comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive molecule is the toxin, radiolabel, or an antibody. The bioactive molecule causes death of the cell. PRO337 polypeptide is useful for linking a
	Query Match            2.9%;     Score 12.2;   DB 1;   Length 18;
	Best Local Similarity   82.4%;   Pred. No. 4.7e+02;
	Matches    14;   Conservative    0;   Mismatches   3;   Indels        0;   Gaps        0;
QY	149 GGAGCGCCGGCTTCGACT 165 
DB	17 GGAGTTCGACTTCCACT 1
RESULT 888	
ADC68240/c	ID ID ADC68240 standard; DNA; 18 BP.
XX	ADCC68240;
AC	ADCC68240;
DT	18-DEC-2003 (first entry)
DE	Human PRO 298 PCR primer #3.
XX	Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic; ophthalmological; antiarthritic; osteopathic; antitumoral; vulnary;
KW	auditory; tumour growth; retinal disorder; sports-related joint problem;
KW	articular cartilage defects; osteoarthritis; rheumatoid arthritis;
KW	wound healing; hearing loss; primer.
XX	Homo sapiens.
OS	US2003069178-A1.
PX	10-APR-2003.
PD	16-OCT-2001; 2001US-00978423.
XX	17-OCT-1997; 97US-0062250P.
XX	03-NOV-1997; 97US-0064249P.
PR	23-NOV-1997; 97US-0065311P.
PR	21-NOV-1997; 97US-0086344P.
PR	10-MAR-1998; 98US-0077450P.
PR	11-MAR-1998; 98US-0077632P.
PR	11-MAR-1998; 98US-0077641P.
PR	11-MAR-1998; 98US-0077649P.
PR	12-MAR-1998; 98US-0077791P.
PR	13-MAR-1998; 98US-0078004P.
PR	20-MAR-1998; 98US-0078886P.
PR	20-MAR-1998; 98US-0078910P.
PR	20-MAR-1998; 98US-0078936P.
PR	20-MAR-1998; 98US-0078939P.
PR	25-MAR-1998; 98US-0079294P.
PR	26-MAR-1998; 98US-0079656P.
PR	27-MAR-1998; 98US-0079663P.
PR	27-MAR-1998; 98US-0079664P.
PR	27-MAR-1998; 98US-0079689P.
PR	27-MAR-1998; 98US-0079728P.

PR		28-MAY-1998;	98US-0087098P.
PR		28-MAY-1998;	98US-0087106P.
PR		28-MAY-1998;	98US-0087208P.
PR		26-JUN-1998;	98US-0090863P.
PR		26-JUN-1998;	98US-0091010P.
PR		01-JUL-1998;	98US-0091359P.
PR		30-JUL-1998;	98US-0094651P.
PR		11-SEP-1998;	98US-0100038P.
PR		07-OCT-1998;	98WO-US021141.
PR		20-NOV-1998;	98US-0109304P.
PR		22-DEC-1998;	98WO-US024855.
PR		23-DEC-1998;	98US-0113296P.
PR		05-JAN-1999;	98US-0113621P.
PR		08-MAR-1999;	99WO-US000106.
PR		10-MAR-1999;	99WO-US005028.
PR		12-MAR-1999;	99WO-US005190.
PR		29-MAR-1999;	99US-0123957P.
PR		21-APR-1999;	99US-0126773P.
PR		26-APR-1999;	99US-0130232P.
PR		28-APR-1999;	99US-0131022P.
PR		14-MAY-1999;	99US-0131445P.
PR		14-MAY-1999;	99WO-US010733.
PR		02-JUN-1999;	99WO-US012252.
PR		16-JUN-1999;	99US-0139557P.
PR		30-NOV-1999;	99WO-US028313.
PR		02-DEC-1999;	99WO-US028551.
PR		02-DEC-1999;	99WO-US028565.
PR		16-DEC-1999;	99WO-US030095.
PR		30-DEC-1999;	99WO-US031243.
PR		30-DEC-1999;	99WO-US031274.
PR		05-JAN-2000;	2000WO-US000219.
PR		06-JAN-2000;	2000WO-US000277.
PR		06-JAN-2000;	2000WO-US000376.
PR		11-FEB-2000;	2000WO-US003565.
PR		18-FEB-2000;	2000WO-US004341.
PR		24-FEB-2000;	2000WO-US005004.
PR		02-MAR-2000;	2000WO-US005841.
PR		10-MAR-2000;	2000WO-US006319.
PR		21-MAR-2000;	2000WO-US007532.
PR		30-MAR-2000;	2000WO-US008439.
PR		17-MAY-2000;	2000WO-US013705.
PR		22-MAY-2000;	2000WO-US014042.
PR		30-MAY-2000;	2000WO-US014941.
PR		02-JUN-2000;	2000WO-US015264.
PR		28-JUL-2000;	2000WO-US020710.
PR		24-AUG-2000;	2000WO-US023128.
PR		01-DEC-2000;	2000WO-US032678.
PR		20-DEC-2000;	2000WO-US034956.
PR		28-FEB-2001;	2001WO-US006520.
PR		22-MAR-2001;	2001WO-US009552.
PR		25-MAY-2001;	2001WO-US017092.
PR		01-JUN-2001;	2001WO-US017800.
PR		20-JUN-2001;	2001WO-US019692.
PR		29-JUN-2001;	2001WO-US021066.
PR		09-JUL-2001;	2001WO-US021735.
PR		30-JUL-2001;	2001US-00918585.
XX			
PA	(GETH ) GENENTECH INC.		
PA			
XX			
PI	Ashtenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;		
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;		
PI	Goddard A, Godowski PJ, Grimaldi JC, Gurney AF, Hillan KJ;		
PI	Klijavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy WA, Shelton DL;		
PI	Stewart TA, Tumas D, Williams PM, Wood WI;		
XX			
DR	WPI; 2003-695924/66.		
XX			
PT	New isolated secreted and transmembrane PRO polypeptides, useful in the		
PT	Preparation of a medicament for treating a condition responsive to the		
PT	polypeptide, and as therapeutic agents e.g. vaccines.		
PS	Example 95: SEQ ID NO 519: 467bp: English.		



PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 08-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081932P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083332P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083559P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085689P.  
PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 18-MAY-1998; 98US-0085704P.  
PR 22-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086414P.  
PR 22-MAY-1998; 98US-0086430P.  
PR 28-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98WO-US024855.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131032P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012352.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 28-DEC-2000; 2000WO-US034956.  
PR 28-DEC-2000; 2001WO-US006520.  
PR 22-MAY-2001; 2001WO-US009552.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 23-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
(GETH ) GENENTECH INC.  
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;  
Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
Kjavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
Stewart TA, Tumas D, Williams PM, Wood WI;  
WPI; 2003-657582/62.  
XX Novel secreted and transmembrane polypeptides, designated PRO  
XX polypeptides, and polynucleotides encoding them useful for treating  
XX kidney diseases, bone, cartilage and retinal disorders.  
XX Example 95; SEQ ID NO 519; 468pp; English.  
XX The invention relates to an isolated PRO polypeptide (secreted or  
XX transmembrane protein) having at least 80% amino acid sequence identity  
CC

CC to an amino acid sequence chosen from 94 fully defined sequences as given  
 CC in the specification (including PRO lacking its associated signal  
 CC peptide, a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGTTCGACT 165  
 DB 17 GGAGGCGACTTCCTACT 1

RESULT 889  
 ADC41560/c  
 ID ADC41560 standard; DNA; 18 BP.

XX AC ADC41560;

XX DT 18-DEC-2003 (first entry)

XX DE Human PRO 298 PCR primer #3.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulvar;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.

XX OS Homo sapiens.

XX US2003072745-A1.

XX PD 17-APR-2003.

XX PF 25-OCT-2001; 2001US-00013929.

XX PR 17-OCT-1997; 97US-0622250P.

PR 03-NOV-1997; 97US-064249P.

PR 13-NOV-1997; 97US-065311P.

PR 21-NOV-1997; 97US-066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 12-MAR-1998; 98US-0077649P.

PR 13-MAR-1998; 98US-0077791P.

PR 20-MAR-1998; 98US-0078004P.

PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079294P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079728P.

PR 01-APR-1998; 98US-0080327P.  
 PR 01-APR-1998; 98US-0080328P.  
 PR 01-APR-1998; 98US-0080333P.  
 PR 01-APR-1998; 98US-0080334P.  
 PR 08-APR-1998; 98US-0081049P.  
 PR 08-APR-1998; 98US-0081070P.  
 PR 08-APR-1998; 98US-0081071P.  
 PR 08-APR-1998; 98US-0081195P.  
 PR 09-APR-1998; 98US-0081203P.  
 PR 09-APR-1998; 98US-0081229P.  
 PR 15-APR-1998; 98US-0081817P.  
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 PR 15-APR-1998; 98US-0081838P.  
 PR 15-APR-1998; 98US-0081952P.  
 PR 15-APR-1998; 98US-0081955P.  
 PR 21-APR-1998; 98US-0082566P.  
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 PR 22-APR-1998; 98US-0082704P.  
 PR 22-APR-1998; 98US-0082797P.  
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 PR 23-APR-1998; 98US-0082796P.  
 PR 27-APR-1998; 98US-0083336P.  
 PR 28-APR-1998; 98US-0083322P.  
 PR 29-APR-1998; 98US-0083392P.  
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 PR 29-APR-1998; 98US-0083500P.  
 PR 29-APR-1998; 98US-0083545P.  
 PR 29-APR-1998; 98US-0083554P.  
 PR 29-APR-1998; 98US-0083558P.  
 PR 29-APR-1998; 98US-0083559P.  
 PR 30-APR-1998; 98US-0083742P.  
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 PR 07-MAY-1998; 98US-0084598P.  
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 PR 22-MAY-1998; 98US-0086392P.  
 PR 22-MAY-1998; 98US-0086414P.  
 PR 22-MAY-1998; 98US-0086430P.  
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 PR 28-MAY-1998; 98US-0087098P.  
 PR 28-MAY-1998; 98US-0087106P.  
 PR 28-MAY-1998; 98US-0087208P.  
 PR 26-JUN-1998; 98US-0090863P.  
 PR 26-JUN-1998; 98US-0091010P.  
 PR 01-JUL-1998; 98US-0091359P.  
 PR 30-JUL-1998; 98US-0094651P.  
 PR 11-SEP-1998; 98US-0100038P.  
 PR 07-OCT-1998; 98WO-US021141.  
 PR 20-NOV-1998; 98US-0109304P.  
 PR 20-NOV-1998; 98WO-US024855.  
 PR 22-DEC-1998; 98US-0113296P.  
 PR 23-DEC-1998; 98US-0113621P.

98US-0113621P.

05-JAN-1999; 99WO-US000106.  
 08-MAR-1999; 99WO-US0005028.  
 10-MAR-1999; 99WO-US0005190.  
 12-MAR-1999; 99US-0123957P.  
 29-MAR-1999; 99US-0126773P.  
 21-APR-1999; 99US-0130232P.  
 26-APR-1999; 99US-0131022P.  
 28-APR-1999; 99US-0131445P.  
 14-MAY-1999; 99US-0134287P.  
 14-MAY-1999; 99WO-US010733.  
 02-JUN-1999; 99WO-US012252.  
 16-JUN-1999; 99US-0139557P.  
 23-JUN-1999; 99US-0141037P.  
 07-JUL-1999; 99US-0142680P.  
 26-JUL-1999; 99US-0145698P.  
 28-JUL-1999; 99US-0146222P.  
 29-OCT-1999; 99US-0162506P.  
 30-NOV-1999; 99WO-US028313.  
 02-DEC-1999; 99WO-US028551.  
 02-DEC-1999; 99WO-US028565.  
 16-DEC-1999; 99WO-US030095.  
 30-DEC-1999; 99WO-US031243.  
 30-DEC-1999; 99WO-US031274.  
 05-JAN-2000; 2000WO-US000219.  
 06-JAN-2000; 2000WO-US000277.  
 06-JAN-2000; 2000WO-US000376.  
 11-FEB-2000; 2000WO-US003565.  
 19-FEB-2000; 2000WO-US004341.  
 24-FEB-2000; 2000WO-US005004.  
 02-MAR-2000; 2000WO-US005841.  
 10-MAR-2000; 2000WO-US006319.  
 21-MAR-2000; 2000WO-US007532.  
 30-MAR-2000; 2000WO-US008439.  
 17-MAY-2000; 2000WO-US013705.  
 22-MAY-2000; 2000WO-US014042.  
 30-MAY-2000; 2000WO-US014941.  
 02-JUN-2000; 2000WO-US015264.  
 28-JUL-2000; 2000WO-US020710.  
 24-AUG-2000; 2000WO-US023328.  
 01-DEC-2000; 2000WO-US032678.  
 20-DEC-2000; 2000WO-US034956.  
 28-FEB-2001; 2001WO-US006530.  
 22-MAR-2001; 2001WO-US009552.  
 25-MAY-2001; 2001WO-US017092.  
 01-JUN-2001; 2001WO-US017800.  
 20-JUN-2001; 2001WO-US019692.  
 29-JUN-2001; 2001WO-US021066.  
 09-JUL-2001; 2001WO-US021735.  
 30-JUL-2001; 2001US-00918595.  
 (GETH ) GENENTECH INC.  
 Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 Giddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 Stewart TA, Tumas D, Williams PM, Wood WI;  
 WPI; 2003-743806/70.  
 Novel isolated secreted and transmembrane PRO polypeptides, useful in the preparation of a medicament for treating a condition responsive to the polypeptide, and as therapeutic agents e.g. vaccines.  
 Example 95; SEQ ID NO 519; 466pp; English.  
 The invention relates to an isolated PRO polypeptide (secreted or transmembrane protein) having at least 80% amino acid sequence identity to an amino acid sequence chosen from 94 fully defined sequences as given in the specification (including PRO lacking its associated signal peptide, a PRO extracellular domain with or without its associated signal peptide). Also included are nucleic acids encoding the PRO proteins mentioned above, a vector comprising a PRO nucleic acid, a host cell

comprising the vector and producing PRO, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence, and an anti-PRO antibody. PRO337 polypeptide is useful for detecting a PRO4993 polypeptide in a sample suspected of containing PRO4993 polypeptide. Similarly, PRO4993 polypeptide is useful for detecting PRO337

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGCTTCGACT 165  
 Db 17 GGAGGTCGACTTCCACT 1

RESULT 890  
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 ID ADC67615 standard; DNA; 18 BP.  
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 AC ADC67615;  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE Human PRO 298 PCR primer #3.  
 XX  
 KW vulnary; virucide; neuroprotective; cytostatic; gene therapy;  
 KW tumour cell proliferation inhibitor;  
 KW secreted and transmembrane protein; PRO; viral infection; wound healing;  
 KW tissue growth; muscle generation; muscle regeneration;  
 KW ankyrotrophic lateral sclerosis; neuropathy; AIDS-associated neuropathy;  
 KW diabetic peripheral neuropathy; chromosome identification; antagonist;  
 KW tissue typing; immunohistochemical staining; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003073131-A1.  
 XX  
 PD 17-APR-2003.  
 XX  
 PF 25-OCT-2001; 2001US-00046177.  
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 PR 11-MAR-1998; 98US-0077632P.  
 PR 11-MAR-1998; 98US-0077641P.  
 PR 12-MAR-1998; 98US-0077791P.  
 PR 13-MAR-1998; 98US-0078004P.  
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 PR 31-MAR-1998; 98US-0080107P.  
 PR 31-MAR-1998; 98US-0080165P.  
 PR 31-MAR-1998; 98US-0080194P.  
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PR 15-APR-1998; 98US-0081818P.  
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PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
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PR 07-MAY-1998; 98US-0084637P.  
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PR 15-MAY-1998; 98US-0085704P.  
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PR 22-MAY-1998; 98US-0086430P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98WO-US024855.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131022P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99WO-US010713.  
PR 02-JUN-1999; 99WO-US012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 27-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 22-MAR-2001; 2001WO-US009552.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001WO-US021858.  
XX XX  
XX (GETH ) GENENTECH INC.  
XX Ashkenazi AJ, Baker KP, Botstein D, Deenoyers L, Eaton DL;  
XX Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;  
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shelton DL;  
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy NA, Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-743810/70.  
XX  
XX Novel isolated secreted and transmembrane PRO polypeptides, useful in the  
XX preparation of a medicament for treating a condition responsive to the  
XX polypeptide, and as therapeutic agents e.g. vaccines.  
XX Example 95; SEQ ID NO 519; 454pp; English.  
XX  
XX The invention describes an isolated secreted and transmembrane PRO  
XX polypeptide (I). PRO polypeptide such as PRO213, PRO700, PRO320 or PRO615  
XX is useful in biotechnological and medical research, as well as in various  
XX industrial applications. PRO polypeptide such as PRO300, PRO866, PRO703,  
XX PRO708, PRO320, PRO351, PRO381, PRO615, PRO618, PRO772, PRO853,  
XX PRO860 or PRO846 is useful for therapeutic purposes. PRO363 is useful  
XX therapeutically in vivo for lessening the effects of viral infection.  
XX PRO200 is useful for the treatment of wound healing, tissue growth and  
XX muscle generation and regeneration. PRO337 is useful for treating or  
XX amphotrophic lateral sclerosis, neuropathy, AIDS-associated neuropathy or  
XX Query Match 2.9%; Score 12.2; DB 1; Length 18;

Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGCGCGCTCCACT 165  
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Db 17 GGAGTCGACTCCACT 1

RESULT 891  
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AC ADCG2551;  
XX  
DT 18-DEC-2003 (first entry)  
XX  
DE Human PRO 298 PCR primer #3.  
XX  
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
KW auditory; tumor growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
OS Homo sapiens.  
XX  
PN US2003073624-A1.  
XX  
PD 17-APR-2003.  
XX  
PF 15-OCT-2001; 2001US-00978193.  
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PR 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
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PR 26-JUN-1998; 98US-00105413.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98US-00168978.  
PR 02-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98US-00202054.  
PR 07-DEC-1998; 98US-00218517.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 98US-0000106.  
PR 05-JAN-1999; 98US-00254465.  
PR 08-MAR-1999; 98US-00255028.  
PR 10-MAR-1999; 98US-00265686.  
PR 10-MAR-1999; 98US-00265190.  
PR 12-MAR-1999; 98US-00267213.  
PR 12-MAR-1999; 98US-0123957P.  
PR 29-MAR-1999; 98US-0126773P.

RESULT 892  
ADC42184/c  
ID ADC42184 standard; DNA; 18 BP.  
XX  
AC ADC42184;  
XX  
DI 18-DEC-2003 (first entry)  
XX  
DE Human PRO 298 PCR primer #3.  
XX  
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosol; ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular; cartilage defects; osteoarthritis; rheumatoid arthritis;  
XX wound healing; hearing loss; primer.  
OS Homo sapiens.  
XX  
PN US2003104998-A1.  
XX  
PD 05-JUN-2003.  
XX  
PF 16-OCT-2001; 2001US-00978643.  
XX  
PR 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0065364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
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PR 13-MAR-1998; 98US-0078004P.  
PR 17-MAR-1998; 98US-0004022P.  
PR 20-MAR-1998; 98US-0078868P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
PR 27-MAR-1998; 98US-0079663P.  
PR 27-MAR-1998; 98US-0079664P.  
PR 27-MAR-1998; 98US-0079689P.  
PR 27-MAR-1998; 98US-0079728P.  
PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079923P.  
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PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080107P.  
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PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
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PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
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PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
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PR 21-APR-1998; 98US-0081955P.  
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PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.

PR 12-APR-1999; 99US-00284291.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131022P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-00311832.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 25-AUG-1999; 99US-00380137.  
PR 25-AUG-1999; 99US-00380138.  
PR 25-AUG-1999; 99US-00380142.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
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PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 04-FEB-2000; 2000US-0180185P.  
PR 11-FEB-2000; 2000WO-US003365.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
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PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000US-00709238.  
PR 21-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001WO-US009552.  
PR 10-MAY-2001; 2001US-00854208.  
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PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
XX (GETH ) GENENTECH INC.  
XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 149 GGAGCCGCGCTTCGACT 165  
DB 17 GGAGGTCGACTTCCACT 1

PR 22-APR-1998; 98US-0082804P.  
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PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
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PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
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PR 15-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
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PR 22-MAY-1998; 98US-0086430P.  
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PR 28-MAY-1998; 98US-0087106P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-00105413.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
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PR 07-OCT-1998; 98US-00168978.  
PR 02-NOV-1998; 98US-00211141.  
PR 06-NOV-1998; 98US-00184215.  
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PR 20-NOV-1998; 98US-00204855.  
PR 22-DEC-1998; 98US-00202054.  
PR 22-DEC-1998; 98US-00218517.  
PR 23-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 98US-00184215.  
PR 05-MAR-1999; 98US-00254465.  
PR 08-MAR-1999; 98US-00254465.  
PR 10-MAR-1999; 98US-00265686.  
PR 10-MAR-1999; 98US-00267213.  
PR 12-MAR-1999; 98US-0123957P.  
PR 29-MAR-1999; 98US-0126773P.  
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PR 26-APR-1999; 98US-0131022P.  
PR 28-APR-1999; 98US-0131445P.  
PR 14-MAY-1999; 98US-00311832.  
PR 14-MAY-1999; 98US-0134287P.

PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
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PR 23-JUN-1999; 99US-0141037P.  
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PR 25-AUG-1999; 99US-00380137.  
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PR 25-AUG-1999; 99US-00380142.  
PR 30-OCT-1999; 99US-0162506P.  
PR 02-DEC-1999; 99WO-US028313.  
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PR 16-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003585.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000US-00709238.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 22-MAR-2001; 2001US-00816744.  
PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001WO-US009552.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 30-JUL-2001; 2001US-00918585.  
PR XX (GETH ) GENENTECH INC.  
PR XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGGCTCGACT 165  
Db 17 GGAGGCGGCTCGACT 1  
RESULT 893  
ADD24791/C  
ID ADD24791 standard; DNA; 18 BP.  
XX  
AC ADD24791;  
XX

DE 15-JAN-2004 (first entry)  
 XX Human CYP2D6 mutants G1846A and G1758T probe H234.  
 DE diagnostic; pharmaceutical tolerance; side effect; drug; human;  
 XX allelic variability; polymorphism; phase I; phase II;  
 KW detoxification mechanism; PCR; primer; probe; NAT2; CYP2D6; CYP1A2;  
 KW CYP3A4; MEH; TPMT; MTHFR; paraoxonase; CYP2C9; CYP2E1; DPD; ss.  
 XX Homo sapiens.  
 OS  
 XX WO2003018837-A2.  
 PN  
 XX 06-MAR-2003.  
 XX  
 XX 22-AUG-2002; 2002WO-EP009386.  
 PF  
 XX 24-AUG-2001; 2001DE-01040651.  
 PR  
 XX 30-APR-2002; 2002DE-01019373.  
 PR  
 XX (ADNA-) ADNAGEN AG.  
 PA  
 XX Waschuetza S, Schnakenberg E, Lustig M;  
 PI  
 XX WPI; 2003-290079/28.  
 DR  
 XX Diagnostic kit, useful for assessing a subject's tolerance of drugs,  
 PT comprises reagents for determining alleles of genes encoding  
 PT detoxification enzymes.  
 XX  
 XX Claim 6; Page 19; 156pp; German.  
 PS  
 XX This invention describes a novel diagnostic kit for determining tolerance  
 CC of pharmaceuticals in humans by determining allelic variability of at  
 CC least two polymorphisms of a human enzyme involved in phase I and/or II  
 CC of the detoxification mechanism in a blood, tissue or other human sample,  
 CC where tolerance is determined from presence or absence of alleles. The  
 CC kit comprises two pairs of oligonucleotide primers, in which each pair  
 CC amplifies, by PCR, part of a gene for a human detoxification mechanism-  
 CC associated enzyme. The kit may also contain two further pairs of  
 CC oligonucleotides, serving as probes for detection of amplified DNA  
 CC segments, especially where the probes are complementary to a single  
 CC strand of one allele of the target gene. The probes are labelled with  
 CC fluorophores (LC-Red640 or LC-Red705 for 5'-labelling or fluorescein for  
 CC 3'-labelling) which generate a different signal in the hybridized and non  
 CC hybridized condition. The enzymes detected include NAT2, CYP2D6, CYP1A2,  
 CC CYP3A4, MEH, TPMT, MTHFR, paraoxonase, CYP2C9, CYP2C19, CYP2E1 or DPD.  
 CC The kit is used to determine an individual's tolerance of a particular  
 CC drug, to establish a suitable dose and/or to predict if a subject will  
 CC show side-effects to a drug. The kit provides minimally invasive, safe  
 CC and reliable determination of the metabolic capacity of phase I and/or II  
 CC enzymes at the molecular level. This sequence represents a probe used in  
 CC the kit of the invention.  
 XX  
 XX Sequence 18 BP; 2 A; 3 C; 8 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 47 CCACCACTCAGAGGAGT 63  
 Db 17 CCATCACCACACAGGAGT 1  
 RESULT 894  
 ADE15061/C  
 ID ADE15061 standard; DNA; 18 BP.  
 XX  
 XX ADE15061;  
 AC  
 XX 29-JAN-2004 (first entry)  
 DT  
 XX

DE Beer spoilage-associated primer SEQ ID 256.  
 XX ss; primer; detection; beer-spoilage; lactic acid bacteria;  
 KW Gram-negative bacteria; spoilage bacteria.  
 XX  
 XX Lactobacillus coryniformis.  
 OS  
 XX WO2002103043-A2.  
 PN  
 XX 27-DEC-2002.  
 PD  
 XX 19-JUN-2002; 2002WO-EP006808.  
 PF  
 XX 19-JUN-2001; 2001DE-01029410.  
 PR  
 XX (VERM-) VERMICON AG.  
 PA  
 XX Beimfohr C, Snaidr J;  
 PI  
 XX WPI; 2003-175243/17.  
 DR  
 XX New oligonucleotides, useful for rapid detection of beer-spoilage  
 PT bacteria by in situ hybridization, are specific for type, genus or  
 PT species.  
 XX  
 XX Claim 1; SEQ ID NO 256; 88pp; German.  
 PS  
 XX This invention describes novel oligonucleotides used in a method for  
 CC detecting beer-spoilage bacteria in a sample. The bacteria detected  
 CC include lactic acid bacteria of the genera Lactobacillus or Pediococcus,  
 CC especially the species L. coryniformis, L. perolens, L. buchneri, L.  
 CC plantarum, L. fructivorans, L. lindneri, L. casei, L. brevis or P.  
 CC damnosus or Gram-negative bacteria of the genera Pectinatus and M.  
 CC Megaphaera, specifically P. frisingensis, P. cerevisiophilus and M.  
 CC cerevisiae. The oligonucleotides of the invention provide rapid detection  
 CC of spoilage bacteria (typically within 48 hours, compared with 7-12 days  
 CC for conventional culture methods), can detect all relevant bacteria in  
 CC parallel, can differentiate between species of the same genus, and are  
 CC easy to use. ADE14806-ADE15247 represent the oligonucleotides used in the  
 CC method of the invention.  
 XX  
 XX Sequence 18 BP; 3 A; 5 C; 6 G; 4 T; 0 U; 0 Other;  
 SQ Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 103 CTCACCGCGACCGCAGC 119  
 Db 18 CTCACGTCGACCGAGC 2  
 RESULT 895  
 ADE15067/C  
 ID ADE15067 standard; DNA; 18 BP.  
 XX  
 XX ADE15067;  
 AC  
 XX 29-JAN-2004 (first entry)  
 DT  
 XX Beer spoilage-associated primer SEQ ID 262.  
 DE  
 XX ss; primer; detection; beer-spoilage; lactic acid bacteria;  
 KW Gram-negative bacteria; spoilage bacteria.  
 XX  
 XX Lactobacillus coryniformis.  
 OS  
 XX WO2002103043-A2.  
 PN  
 XX 27-DEC-2002.  
 PD  
 XX 19-JUN-2002; 2002WO-EP006808.  
 PR  
 XX



PR 19-JUN-2001; 2001DE-01029410.  
XX (VERM-) VERMICON AG.  
PA Beinfuhr C, Snaidr J;  
XX WPI; 2003-175243/17.  
XX New oligonucleotides, useful for rapid detection of beer-spoilage  
PT bacteria by in situ hybridization, are specific for type, genus or  
XX species.  
XX Claim 1; SEQ ID NO 262; 88pp; German.  
XX This invention describes novel oligonucleotides used in a method for  
XX detecting beer-spoilage bacteria in a sample. The bacteria detected  
XX include lactic acid bacteria of the genera Lactobacillus or Pediococcus,  
XX especially the species L. coryniformis, L. perolens, L. buchneri, L.  
XX plantarum, L. fructivorans, L. lindneri, L. casei, L. brevis or P.  
XX plantarum or Gram-negative bacteria of the genera Pectinatus and  
XX Megaspheara, specifically P. frisingensis, P. cerevisiophilus and M.  
XX cerevisiae. The oligonucleotides of the invention provide rapid detection  
XX of spoilage bacteria (typically within 48 hours, compared with 7-12 days  
XX for conventional culture methods), can detect all relevant bacteria in  
XX parallel, can differentiate between species of the same genus, and are  
XX easy to use. ADE14806-ADE15247 represent the oligonucleotides used in the  
XX method of the invention.  
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 103 CTGACCGCGACCGCAGC 119  
Db 17 CTGACGTCGACCGCAGC 1  
  
RESULT 896  
ADE49553/C  
ID ADE49553 standard; DNA; 18 BP.  
XX ADE49553;  
XX 29-JAN-2004 (first entry)  
XX Human PRO 298 PCR primer #3.  
XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX Homo sapiens.  
XX US2003096744-A1.  
XX 22-MAY-2003.  
XX 28-JAN-2002; 2002US-00978187.  
XX 17-OCT-1997; 97US-0062250P.  
PR 03-NOV-1997; 97US-0064249P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 10-MAR-1998; 98US-0077450P.  
PR 11-MAR-1998; 98US-0077632P.  
PR 11-MAR-1998; 98US-0077641P.  
PR 11-MAR-1998; 98US-0077649P.  
PR 12-MAR-1998; 98US-0077791P.  
PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040220.  
PR 20-MAR-1998; 98US-0078886P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 20-MAR-1998; 98US-0078939P.  
PR 25-MAR-1998; 98US-0079294P.  
PR 26-MAR-1998; 98US-0079656P.  
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PR 31-MAR-1998; 98US-0080105P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
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PR 08-APR-1998; 98US-0080499P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 21-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082757P.  
PR 22-APR-1998; 98US-0082804P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083322P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
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PR 29-APR-1998; 98US-0083558P.  
PR 30-APR-1998; 98US-0083559P.  
PR 30-APR-1998; 98US-0083742P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084441P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
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PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
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PR 15-MAY-1998; 98US-0085579P.  
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PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085689P.  
PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 15-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.

PR 22-MAY-1998; 98US-0086332P.  
PR 22-MAY-1998; 98US-0086414P.  
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PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087098P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-00105413.  
PR 26-JUN-1998; 98US-0090863P.  
PR 26-JUN-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98US-00168978.  
PR 07-OCT-1998; 98US-00211411.  
PR 02-NOV-1998; 98US-00184216.  
PR 06-NOV-1998; 98US-00187368.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98US-0024855.  
PR 07-DEC-1998; 98US-00202054.  
PR 22-DEC-1998; 98US-00218517.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99US-00000106.  
PR 05-MAR-1999; 99US-00254465.  
PR 08-MAR-1999; 99US-0005028.  
PR 10-MAR-1999; 99US-00265686.  
PR 10-MAR-1999; 99US-00005190.  
PR 12-MAR-1999; 99US-00267213.  
PR 12-MAR-1999; 99US-0123957P.  
PR 29-MAR-1999; 99US-0126773P.  
PR 12-APR-1999; 99US-00284291.  
PR 21-APR-1999; 99US-0130232P.  
PR 26-APR-1999; 99US-0131022P.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-00311832.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99US-00107733.  
PR 02-JUN-1999; 99US-0012252.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 25-AUG-1999; 99US-00380137.  
PR 25-AUG-1999; 99US-00380138.  
PR 25-AUG-1999; 99US-00380142.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99US-0028313.  
PR 02-DEC-1999; 99US-0028551.  
PR 02-DEC-1999; 99US-0028565.  
PR 16-DEC-1999; 99US-0030095.  
PR 30-DEC-1999; 99US-0031243.  
PR 30-DEC-1999; 99US-0031274.  
PR 05-JAN-2000; 2000US-0000219.  
PR 06-JAN-2000; 2000US-0000277.  
PR 06-JAN-2000; 2000US-0000376.  
PR 11-FEB-2000; 2000US-0003565.  
PR 18-FEB-2000; 2000US-0004341.  
PR 24-FEB-2000; 2000US-0005004.  
PR 02-MAR-2000; 2000US-0005841.  
PR 10-MAR-2000; 2000US-0006319.  
PR 21-MAR-2000; 2000US-0007532.  
PR 30-MAR-2000; 2000US-0008439.  
PR 17-MAY-2000; 2000US-0013705.  
PR 22-MAY-2000; 2000US-0014042.  
PR 30-MAY-2000; 2000US-0014941.  
PR 02-JUN-2000; 2000US-0015264.  
PR 28-JUL-2000; 2000US-0020710.  
PR 24-AUG-2000; 2000US-0023328.  
PR 08-NOV-2000; 2000US-00709238.  
PR 27-NOV-2000; 2000US-00723749.  
PR 01-DEC-2000; 2000US-0032678.

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PR 20-DEC-2000; 2000US-0074956.  
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PR 22-MAR-2001; 2001US-00816920.  
PR 22-MAR-2001; 2001US-00816920.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
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PR 01-JUN-2001; 2001US-00872035.  
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PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001US-0019692.  
PR 29-JUN-2001; 2001US-0021066.  
PR 09-JUL-2001; 2001US-0021735.  
PR 30-JUL-2001; 2001US-00918585.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
XX  
PI Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;  
  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 149 GGAGCGCGCTTCGACT 165  
Db 17 GGAGTCGACTTCCACT 1  
  
RESULT 897  
ADE35607/c  
ID ADE35607 standard; DNA; 18 BP.  
AC ADE35607;  
XX  
XX 29-JAN-2004 (first entry)  
XX Human PRO 298 PCR primer #3.  
XX  
XX Human; ss: PCR: secreted protein; transmembrane protein; PRO; cytostatic;  
XX ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
XX auditory; tumour growth; retinal disorder; sports-related joint problem;  
XX articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
XX wound healing; hearing loss; primer.  
XX Homo sapiens.  
XX  
XX US2003203434-A1.  
XX 30-OCT-2003.  
XX  
XX 18-OCT-2001; 2001US-00145088.  
XX  
XX 15-MAY-1998; 98US-0085689P.  
XX 08-MAR-1999; 99US-0005028.  
XX 28-APR-1999; 99US-0131445P.  
XX 25-AUG-1999; 99US-00380138.  
XX 18-FEB-2000; 2000US-0004341.  
XX 30-JUL-2001; 2001US-00918585.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;  
XX Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;  
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,  
XX Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
XX Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-875641/81.

PT New genes, and its encoded secreted and transmembrane polypeptides,  
 PT useful for treating e.g. lung or breast tumors, osteoarthritis,  
 PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,  
 PT hypoinsulinemia or wounds.  
 XX Example 95; SEQ ID NO 519; 452pp; English.  
 PS  
 CC The invention relates to an isolated PRO polypeptide (secreted or  
 CC transmembrane protein) having at least 80% amino acid sequence identity  
 CC to an amino acid sequence chosen from 94 fully defined sequences as given  
 CC in the specification (including PRO lacking its associated signal  
 CC peptide), a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid), a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 CC causes death of the cell. PRO337 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
 CC useful for linking a bioactive molecule to a cell expressing PRO725,  
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
 CC polypeptide is useful for modulating at least one biological activity of  
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
 CC modulating the biological activity of the cell expressing PRO1559  
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
 CC PRO739 polypeptide is useful for modulating the biological activity of  
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
 CC sports-related joint problems, articular cartilage defects,  
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
 CC mammals. The present sequence is a PCR primer used to isolate nucleic  
 CC acid encoding a PRO protein.  
 XX  
 SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGCGCTTCGACT 165  
 ||||| ||||| ||||| |||||  
 Db 17 GGAGGTCGACTTCGACT 1

RESULT 898  
 ADE16721/c  
 ID ADE16721 standard; DNA; 18 BP.

XX ADE16721;

XX AC

XX 29-JAN-2004 (first entry)

XX DE Human PRO 298 PCR primer #3.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.

OS Homo sapiens.

XX US2003203435-A1.

XX 30-OCT-2003.

XX 18-OCT-2001; 2001US-00145092.

XX 30-APR-1998; 98US-0083742P.

XX 08-MAR-1999; 99WO-US005028.

XX 23-JUN-1999; 99US-0141037P.

XX 25-AUG-1999; 99US-00380138.

XX 18-FEB-2000; 2000WO-US004341.

XX 30-JUL-2001; 2001US-00918585.

XX (GETH ) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 XX Kijavini LJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 XX Stewart TA, Tumas D, Williams PM, Wood WT;

XX WPI; 2003-875642/81.

XX New genes, and its encoded secreted and transmembrane polypeptides,  
 XX useful for treating e.g. lung or breast tumors, osteoarthritis,  
 XX rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,  
 XX hypoinsulinemia or wounds.  
 XX Example 95; SEQ ID NO 519; 452pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or  
 CC transmembrane protein) having at least 80% amino acid sequence identity  
 CC to an amino acid sequence chosen from 94 fully defined sequences as given  
 CC in the specification (including PRO lacking its associated signal  
 CC peptide), a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid), a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 CC causes death of the cell. PRO337 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
 CC useful for linking a bioactive molecule to a cell expressing PRO725,  
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
 CC polypeptide is useful for modulating at least one biological activity of  
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
 CC modulating the biological activity of the cell expressing PRO1559  
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
 CC PRO739 polypeptide is useful for modulating the biological activity of  
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
 CC sports-related joint problems, articular cartilage defects,  
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
 CC mammals. The present sequence is a PCR primer used to isolate nucleic  
 CC acid encoding a PRO protein.

XX Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 149 GGAGGCGCGCTTCGACT 165  
 ||||| ||||| ||||| |||||  
 Db 17 GGAGGTCGACTTCGACT 1

RESULT 898  
 ADE16721/c  
 ID ADE16721 standard; DNA; 18 BP.

XX ADE16721;

XX AC

XX 29-JAN-2004 (first entry)

XX DE Human PRO 298 PCR primer #3.

XX Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.

OS Homo sapiens.

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;

Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 149 GGAGGCGGCTTCGACT 165  
DB 17 GGAGGTCGACTTCACCT 1  
RESULT 899  
ADD73336/c  
ID ADD73336 standard; DNA; 18 BP.  
XX AC ADD73336;  
XX DT 29-JAN-2004 (first entry)  
XX DE Human PRO 298 PCR primer #3.  
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX OS Homo sapiens.  
XX PN US2003203436-A1.  
XX PD 30-OCT-2003.  
XX PF 18-OCT-2001; 2001US-00145129.  
XX PR 22-MAY-1998; 98US-0085414P.  
PR 22-DEC-1998; 98US-0113296P.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 12-APR-1999; 99US-00284291.  
PR 25-AUG-1999; 99US-00380138.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 30-JUL-2001; 2001US-00918585.  
XX PA (GETH ) GENENTECH INC.  
XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
PI Stewart TA, Tumas D, Williams PM, Wood WI;  
XX WPI; 2003-875643/81.  
XX DR New PRO genes and encoded secreted and transmembrane polypeptides, useful  
XX for treating e.g. lung or breast tumors, osteoarthritis, rheumatoid  
XX arthritis, obesity, diabetes, hyperinsulinemia, hypoinsulinemia or  
XX wounds.  
XX PS Example 95; SEQ ID NO 519; 453pp; English.  
XX CC The invention relates to an isolated PRO polypeptide (secreted or  
XX transmembrane protein) having at least 80% amino acid sequence identity  
XX to an amino acid sequence chosen from 94 fully defined sequences as given  
XX in the specification (including PRO lacking its associated signal  
XX peptide), a PRO extracellular domain with or without its associated signal  
XX peptide), also included are nucleic acids encoding the PRO proteins  
XX mentioned above, a vector comprising a PRO nucleic acid), a host cell  
XX comprising the vector and producing PRO, a chimeric molecule comprising  
XX PRO fused to a heterologous amino acid sequence, and an anti-PRO  
XX antibody. PRO337 polypeptide is useful for detecting a PRO4993  
XX polypeptide in a sample suspected of containing PRO4993 polypeptide.  
XX Similarly, PRO4993 polypeptide is useful for detecting PRO337  
XX polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
XX PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
XX PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
XX bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive

molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
causes death of the cell. PRO337 polypeptide is useful for linking a  
bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
useful for linking a bioactive molecule to a cell expressing PRO725,  
PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
polypeptide is useful for modulating at least one biological activity of  
the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
modulating the biological activity of the cell expressing PRO1559  
polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
PRO739 polypeptide is useful for modulating the biological activity of  
the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
polypeptides are useful for inhibiting tumour growth, retinal disorders,  
sports-related joint problems, articular cartilage defects,  
osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
mammals. The present sequence is a PCR primer used to isolate nucleic  
acid encoding a PRO protein.  
SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 149 GGAGGCGGCTTCGACT 165  
DB 17 GGAGGTCGACTTCACCT 1  
RESULT 900  
ADD72694/c  
ID ADD72694 standard; DNA; 18 BP.  
XX AC ADD72694;  
XX DT 29-JAN-2004 (first entry)  
XX DE Human PRO 298 PCR primer #3.  
XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnerary;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX OS Homo sapiens.  
XX PN US2003194781-A1.  
XX PD 16-OCT-2003.  
XX PF 19-OCT-2001; 2001US-00164929.  
XX PR 30-MAR-1998; 98US-0079920P.  
PR 07-OCT-1998; 98WO-US021141.  
PR 20-NOV-1998; 98WO-US024855.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 15-APR-1999; 99WO-US008313.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 25-AUG-1999; 99US-00380138.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 16-DEC-1999; 99WO-US028565.  
PR 30-DEC-1999; 99WO-US030095.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.

05-JAN-2000; 2000WO-US000219.  
 06-JAN-2000; 2000WO-US000277.  
 06-JAN-2000; 2000WO-US000376.  
 11-FEB-2000; 2000WO-US003565.  
 11-FEB-2000; 2000WO-US004341.  
 18-FEB-2000; 2000WO-US005004.  
 24-FEB-2000; 2000WO-US005841.  
 02-MAR-2000; 2000WO-US006319.  
 10-MAR-2000; 2000WO-US007532.  
 21-MAR-2000; 2000WO-US008439.  
 30-MAR-2000; 2000WO-US013705.  
 17-MAY-2000; 2000WO-US014042.  
 22-MAY-2000; 2000WO-US014941.  
 30-MAY-2000; 2000WO-US015264.  
 02-JUN-2000; 2000WO-US020710.  
 28-JUL-2000; 2000WO-US023328.  
 24-AUG-2000; 2000WO-US025778.  
 01-DEC-2000; 2000WO-US032578.  
 20-DEC-2000; 2000WO-US034956.  
 28-FEB-2001; 2001WO-US006520.  
 22-MAR-2001; 2001WO-US009552.  
 25-MAY-2001; 2001WO-US017092.  
 01-JUN-2001; 2001WO-US017800.  
 20-JUN-2001; 2001WO-US019692.  
 29-JUN-2001; 2001WO-US021066.  
 09-JUL-2001; 2001WO-US021735.  
 30-JUL-2001; 2001US-00918585.  
 (GETH ) GENENTECH INC.  
 Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 Stewart TA, Tumas D, Williams PM, Wood WI;  
 WPI; 2003-852598/79.  
 New secreted and transmembrane PRO nucleic acids and polypeptides, useful  
 for stimulating the release of tumor necrosis factor alpha from human  
 blood and stimulating the proliferation of differentiation of chondrocyte  
 cells.  
 Example 95; SEQ ID NO 519; 462pp; English.  
 The invention relates to an isolated PRO polypeptide (secreted or  
 transmembrane protein) having at least 80% amino acid sequence identity  
 to an amino acid sequence chosen from 94 fully defined sequences as given  
 in the specification (including PRO lacking its associated signal  
 peptide), a PRO extracellular domain with or without its associated signal  
 peptide). Also included are nucleic acids encoding the PRO proteins  
 mentioned above, a vector comprising a PRO nucleic acid), a host cell  
 comprising the vector and producing PRO, a chimeric molecule comprising  
 PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 polypeptide in a sample suspected of containing PRO337.  
 Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
 PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
 bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 causes death of the cell. PRO337 polypeptide is useful for linking a  
 bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
 to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
 useful for linking a bioactive molecule to a cell expressing PRO725,  
 PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
 polypeptide is useful for modulating at least one biological activity of  
 the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
 polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
 biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
 PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
 modulating the biological activity of the cell expressing PRO1559

CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
 CC PRO739 polypeptide is useful for modulating the biological activity of  
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
 CC sports-related joint problems, articular cartilage defects,  
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
 CC mammals. The present sequence is a PCR primer used to isolate nucleic  
 CC acid encoding a PRO protein.  
 CC  
 CC Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e-02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 149 GGAGGCGCGCTTCGACT 165  
 Db 17 GGAGGCGCGCTTCCT 1  
 ADE17345/C  
 ID ADE17345 standard; DNA; 18 BP.  
 XX ADE17345;  
 AC ADE17345;  
 XX  
 DT 29-JAN-2004 (first entry)  
 DE Human PRO 298 PCR primer #3.  
 XX  
 KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytosolic;  
 KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
 KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 KW wound healing; hearing loss; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003203433-A1.  
 XX  
 PD 30-OCT-2003.  
 XX  
 PF 18-OCT-2001; 2001US-00145016.  
 XX  
 PR 06-MAY-1998; 98US-0084414P.  
 PR 22-DEC-1998; 98US-0113296P.  
 PR 05-JAN-1999; 99WO-US000106.  
 PR 08-MAR-1999; 99WO-US0005028.  
 PR 12-APR-1999; 99US-00284291.  
 PR 25-AUG-1999; 99US-00380138.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 30-JUL-2001; 2001US-00918585.  
 (GETH ) GENENTECH INC.  
 Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 Stewart TA, Tumas D, Williams PM, Wood WI;  
 WPI; 2003-852598/81.  
 New genes, and its encoded secreted and transmembrane polypeptides,  
 useful for treating e.g. lung or breast tumors, osteoarthritis,  
 PT rheumatoid arthritis, obesity, diabetes, hyperinsulinemia,  
 PT hypoinsulinemia or wounds.  
 XX  
 PS Example 95; SEQ ID NO 519; 459pp; English.  
 CC The invention relates to an isolated PRO polypeptide (secreted or  
 CC transmembrane protein) having at least 80% amino acid sequence identity  
 CC to an amino acid sequence chosen from 94 fully defined sequences as given  
 CC in the specification (including PRO lacking its associated signal  
 CC peptide), a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid), a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 CC causes death of the cell. PRO337 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
 CC useful for linking a bioactive molecule to a cell expressing PRO725,  
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
 CC polypeptide is useful for modulating at least one biological activity of  
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
 CC modulating the biological activity of the cell expressing PRO1559

CC in the specification (including PRO lacking its associated signal  
 CC peptide, a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for detecting  
 CC PRO725, PRO700 or PRO739. PRO4993 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 CC causes death of the cell. PRO337 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule  
 CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
 CC useful for linking a bioactive molecule to a cell expressing PRO725,  
 CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
 CC polypeptide is useful for modulating at least one biological activity of  
 CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
 CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
 CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
 CC modulating the biological activity of the cell expressing PRO1559  
 CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
 CC PRO739 polypeptide is useful for modulating the biological activity of  
 CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
 CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
 CC sports-related joint problems, articular cartilage defects,  
 CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
 CC mammals. The present sequence is a PCR primer used to isolate nucleic  
 CC acid encoding a PRO protein.

XX SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 149 GGAGCGCGCTTCACT 165  
 |||||  
 Db 17 GGAGTGCACCTTCACT 1

RESULT 902  
 ADE48853/c  
 ID ADE48853 standard; DNA; 18 BP.  
 XX AC ADE48853;  
 XX DT 29-JAN-2004 (first entry)  
 XX DE Human PRO 298 PCR primer #3.  
 XX KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
 XX KW ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnary;  
 XX KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
 XX KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
 XX KW wound healing; hearing loss; primer.  
 XX OS Homo sapiens.  
 XX SS US2003104536-A1.  
 XX PN 05-JUN-2003.  
 XX PD 19-OCT-2001; 2001US-00166709.  
 XX PF 07-OCT-1998; 98WO-US021141.  
 XX PR 20-NOV-1998; 98WO-US024855.  
 XX PR 05-JAN-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US0005028.  
 PR 10-MAR-1999; 99WO-US0005190.  
 PR 14-MAY-1999; 99WO-US010733.  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 30-NOV-1999; 99WO-US028113.  
 PR 02-DEC-1999; 99WO-US028551.  
 PR 16-DEC-1999; 99WO-US028565.  
 PR 30-DEC-1999; 99WO-US030095.  
 PR 30-DEC-1999; 99WO-US031243.  
 PR 30-DEC-1999; 99WO-US031274.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000277.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 10-MAR-2000; 2000WO-US006319.  
 PR 21-MAR-2000; 2000WO-US007532.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 17-MAY-2000; 2000WO-US013705.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US014941.  
 PR 28-JUL-2000; 2000WO-US015264.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 22-MAR-2001; 2001WO-US009552.  
 PR 25-MAY-2001; 2001WO-US017092.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 PR 30-JUL-2001; 2001US-00918595.  
 XX XX  
 PA (GETH ) GENENTECH INC.  
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;  
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;  
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;  
 PI Stewart TA, Tumas D, Williams PM, Wood WI;  
 XX WPI; 2004-008994/01.  
 DR  
 XX  
 PT  
 PT  
 PT  
 XX  
 PS Example 95; SEQ ID NO 519; 460pp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or  
 CC transmembrane protein) having at least 80% amino acid sequence identity  
 CC to an amino acid sequence chosen from 94 fully defined sequences as given  
 CC in the specification (including PRO lacking its associated signal  
 CC peptide, a PRO extracellular domain with or without its associated signal  
 CC peptide). Also included are nucleic acids encoding the PRO proteins  
 CC mentioned above, a vector comprising a PRO nucleic acid, a host cell  
 CC comprising the vector and producing PRO, a chimeric molecule comprising  
 CC PRO fused to a heterologous amino acid sequence, and an anti-PRO  
 CC antibody. PRO337 polypeptide is useful for detecting a PRO4993  
 CC polypeptide in a sample suspected of containing PRO4993 polypeptide.  
 CC Similarly, PRO4993 polypeptide is useful for detecting PRO337  
 CC polypeptide. PRO725, PRO700 or PRO739 polypeptide is useful for detecting  
 CC PRO1559 polypeptide, and PRO1559 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO337 polypeptide. The bioactive  
 CC molecule is the toxin, radiolabel, or an antibody. The bioactive molecule  
 CC causes death of the cell. PRO337 polypeptide is useful for linking a  
 CC bioactive molecule to a cell expressing PRO4993 polypeptide; PRO725,  
 CC PRO700 or PRO739 polypeptide are useful for linking a bioactive molecule

CC to a cell expressing PRO1559 polypeptide; and PRO1559 polypeptide is  
CC useful for linking a bioactive molecule to a cell expressing PRO725,  
CC PRO700 or PRO739 polypeptide. PRO4993 polypeptide or anti-PRO337  
CC polypeptide is useful for modulating at least one biological activity of  
CC the cell expressing PRO337 polypeptide, where the cell is killed. PRO337  
CC polypeptide or anti-PRO4993 polypeptide is useful for modulating the  
CC biological activity of the cell expressing PRO4993 polypeptide; PRO725,  
CC PRO700 or PRO739 polypeptide or an anti-PRO1559 polypeptide is useful for  
CC modulating the biological activity of the cell expressing PRO1559  
CC polypeptide; and PRO1559 polypeptide or anti-PRO725, anti-PRO700 or anti-  
CC PRO739 polypeptide is useful for modulating the biological activity of  
CC the cell expressing PRO725, PRO700 or PRO739 polypeptide. The  
CC polypeptides are useful for inhibiting tumour growth, retinal disorders,  
CC sports-related joint problems, articular cartilage defects,  
CC osteoarthritis or rheumatoid arthritis, wound healing and hearing loss in  
CC mammals. The present sequence is a PCR primer used to isolate nucleic  
CC acid encoding a PRO protein.  
XX  
SQ Sequence 18 BP; 4 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGGGCTCGACT 165  
Db 17 GGAGGTCGACTTCCT 1

RESULT 903  
ADE89954/c  
ID ADE89954 standard; DNA; 18 BP.  
XX  
AC ADE89954;  
XX  
DT 29-JAN-2004 (first entry)  
XX  
DE Human PRO 298 PCR primer #3.  
XX  
KW Human; ss; PCR; secreted protein; transmembrane protein; PRO; cytostatic;  
KW Ophthalmological; antiarthritic; osteopathic; antirheumatic; vulnery;  
KW auditory; tumour growth; retinal disorder; sports-related joint problem;  
KW articular cartilage defects; osteoarthritis; rheumatoid arthritis;  
KW wound healing; hearing loss; primer.  
XX  
OS Homo sapiens.  
XX  
XX US2003130181-A1.  
XX  
XX 10-JUL-2003.  
XX  
XX 16-OCT-2001; 2001US-00978375.  
XX  
XX 17-OCT-1997; 97US-0062250P.  
XX 03-NOV-1997; 97US-0064249P.  
XX 13-NOV-1997; 97US-0065311P.  
XX 21-NOV-1997; 97US-0066364P.  
XX 10-MAR-1998; 98US-0077450P.  
XX 11-MAR-1998; 98US-0077632P.  
XX 11-MAR-1998; 98US-0077641P.  
XX 11-MAR-1998; 98US-0077649P.  
XX 12-MAR-1998; 98US-0077791P.  
XX 13-MAR-1998; 98US-0078004P.  
XX 20-MAR-1998; 98US-0078886P.  
XX 20-MAR-1998; 98US-0078910P.  
XX 20-MAR-1998; 98US-0078936P.  
XX 20-MAR-1998; 98US-0078939P.  
XX 26-MAR-1998; 98US-0079294P.  
XX 26-MAR-1998; 98US-0079656P.  
XX 27-MAR-1998; 98US-0079663P.  
XX 27-MAR-1998; 98US-0079669P.  
XX 27-MAR-1998; 98US-0079728P.  
XX

PR 27-MAR-1998; 98US-0079786P.  
PR 30-MAR-1998; 98US-0079920P.  
PR 30-MAR-1998; 98US-0079923P.  
PR 31-MAR-1998; 98US-0080103P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080165P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080328P.  
PR 01-APR-1998; 98US-0080333P.  
PR 01-APR-1998; 98US-0080334P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 08-APR-1998; 98US-0081071P.  
PR 09-APR-1998; 98US-0081195P.  
PR 09-APR-1998; 98US-0081203P.  
PR 09-APR-1998; 98US-0081229P.  
PR 15-APR-1998; 98US-0081817P.  
PR 15-APR-1998; 98US-0081819P.  
PR 15-APR-1998; 98US-0081838P.  
PR 15-APR-1998; 98US-0081952P.  
PR 15-APR-1998; 98US-0081955P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082700P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 22-APR-1998; 98US-0082804P.  
PR 23-APR-1998; 98US-0082796P.  
PR 27-APR-1998; 98US-0083336P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083392P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083500P.  
PR 29-APR-1998; 98US-0083545P.  
PR 29-APR-1998; 98US-0083554P.  
PR 29-APR-1998; 98US-0083558P.  
PR 29-APR-1998; 98US-0083559P.  
PR 30-APR-1998; 98US-0083743P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 06-MAY-1998; 98US-0084419P.  
PR 07-MAY-1998; 98US-0084598P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 07-MAY-1998; 98US-0084627P.  
PR 07-MAY-1998; 98US-0084637P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 13-MAY-1998; 98US-0085323P.  
PR 13-MAY-1998; 98US-0085338P.  
PR 13-MAY-1998; 98US-0085339P.  
PR 15-MAY-1998; 98US-0085573P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085689P.  
PR 15-MAY-1998; 98US-0085697P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 18-MAY-1998; 98US-0085704P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086414P.  
PR 22-MAY-1998; 98US-0086430P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087099P.  
PR 28-MAY-1998; 98US-0087108P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 01-JUL-1998; 98US-0091010P.  
PR 01-JUL-1998; 98US-0091359P.

PR 30-JUL-1998; 98US-0094651P.  
PR 11-SEP-1998; 98US-0100038P.  
PR 07-OCT-1998; 98US-010021141.  
PR 20-NOV-1998; 98US-0109304P.  
PR 20-NOV-1998; 98US-05024855.  
PR 22-DEC-1998; 98US-0113296P.  
PR 23-DEC-1998; 98US-0113621P.  
PR 05-JAN-1999; 99US-01000106.  
PR 08-MAR-1999; 99US-01005028.  
PR 10-MAR-1999; 99US-01005190.  
PR 12-MAR-1999; 99US-0123957P.  
PR 13-MAR-1999; 99US-0126773P.  
PR 21-APR-1999; 99US-0130232E.  
PR 26-APR-1999; 99US-0131022B.  
PR 28-APR-1999; 99US-0131445P.  
PR 14-MAY-1999; 99US-0134287P.  
PR 14-MAY-1999; 99US-0134287P.  
PR 02-JUN-1999; 99US-0100733.  
PR 16-JUN-1999; 99US-0139557P.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0142680P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99US-0162506P.  
PR 02-DEC-1999; 99US-0162506P.  
PR 02-DEC-1999; 99US-0162506P.  
PR 16-DEC-1999; 99US-0162506P.  
PR 30-DEC-1999; 99US-0162506P.  
PR 03-JAN-2000; 99US-0162506P.  
PR 06-JAN-2000; 99US-0162506P.  
PR 11-FEB-2000; 99US-0162506P.  
PR 18-FEB-2000; 99US-0162506P.  
PR 24-FEB-2000; 99US-0162506P.  
PR 02-MAR-2000; 99US-0162506P.  
PR 10-MAR-2000; 99US-0162506P.  
PR 21-MAR-2000; 99US-0162506P.  
PR 30-MAR-2000; 99US-0162506P.  
PR 17-MAY-2000; 99US-0162506P.  
PR 22-MAY-2000; 99US-0162506P.  
PR 30-MAY-2000; 99US-0162506P.  
PR 02-JUN-2000; 99US-0162506P.  
PR 28-JUL-2000; 99US-0162506P.  
PR 24-AUG-2000; 99US-0162506P.  
PR 01-DEC-2000; 99US-0162506P.  
PR 20-DEC-2000; 99US-0162506P.  
PR 28-FEB-2001; 99US-0162506P.  
PR 22-MAR-2001; 99US-0162506P.  
PR 25-MAY-2001; 99US-0162506P.  
PR 01-JUN-2001; 99US-0162506P.  
PR 20-JUN-2001; 99US-0162506P.  
PR 28-JUN-2001; 99US-0162506P.  
PR 03-JUL-2001; 99US-0162506P.  
PR 30-JUL-2001; 99US-0162506P.

(ASHK/) ASHKENAZI A J.  
(BAKE/) BAKER K P.  
(BOTS/) BOTSTEIN D.  
(DESN/) DESNOVERS L.  
(EATO/) EATON D L.  
(FERR/) FERRARA N.  
(FILN/) FILVAROFF E.  
(FONG/) FONG S.  
(GAOW/) GAO W.  
(GERB/) GERBER H.  
(GERR/) GERRITSEN M E.  
(GODD/) GODDARD A.  
(GODO/) GODOWSKI P J.  
(GIRM/) GIRMALDI J C.  
(GURN/) GURNEY A L.  
(HILL/) HILLAN K J.

PA (KLJA/) KLJAVIN I J.  
PA (KUOS/) KUO S S.  
PA (NAPI/) NAPIER M A.  
PA (PANJ/) PAN J.  
PA (PAON/) PAONI N F.  
PA (ROYM/) ROY M A.  
PA (SHEL/) SHELTON D L.  
PA (STEW/) STEWART T A.  
PA (TUMA/) TUMAS D.  
PA (WILL/) WILLIAMS P M.  
PA (WOOD/) WOOD W I.  
XX

Query Match 2.9%; Score 12.2; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.7e+02;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 149 GGAGGCGCGCTCGACT 165  
DB 17 GGAGTCCGACTTCCT 1

RESULT 904

AAF27041  
ID AAF27041 standard; DNA; 35 BP.

AC AAF27041;

DT 30-MAR-2001 (first entry)

DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:45.

XX Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;  
XX bioavailability; formulation; neurological disorder;  
XX inflammatory disorder; autoimmune disorder; cancer;  
XX neurodegenerative disorder; Parkinson's disease; Huntington's disease;  
XX Alzheimer's disease; neurological injury; stroke; multiple sclerosis;  
XX malignant glioma; medulloblastoma; neuroectodermal tumour;  
XX mutagenic primer; ss.

XX Homo sapiens.

OS Synthetic.

XX WO2000073337-A1.

XX 07-DEC-2000.

XX 26-MAY-2000; 2000WO-US014741.

XX 01-JUN-1999; 99US-0137011P.

XX 13-AUG-1999; 99US-0149016P.

XX (BIOJ) BIOGEN INC.

XX Pepinsky RB, Taylor F, Garber E;

XX WPI; 2001-049927/06.

XX Modified hedgehog protein, useful in the treatment of Parkinson's disease  
XX and Huntington's chorea, comprises a polymer containing a polyalkylene  
XX Glycol group linked to any residue other than the N-terminal and lysine  
XX residues.

XX Example 6; Page 77; 157pp; English.

XX The invention relates to novel polymer conjugates of hedgehog proteins  
XX which have increased bioavailability. The hedgehog proteins are  
XX conjugated to a non-naturally-occurring polymer comprising a polyalkylene  
XX Glycol group, with the proviso that the polymer is not conjugated to the  
XX N-terminus, or to lysine residues of the hedgehog protein. The hedgehog  
XX protein used in the conjugate may be a wild-type or mutant Sonic hedgehog  
XX (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be  
XX a hedgehog fusion protein. The invention also relates to methods of



CC defining and mapping functionally important regions of a protein by  
 CC modifying accessible amino acid side chains, and determining the effect  
 CC the position and/or type of modification have on the activity of the  
 CC protein. The hedgehog polymer conjugates may be used in the management of  
 CC various medical conditions including various neurological disorders,  
 CC inflammatory and autoimmune diseases, and cancers. In particular, they  
 CC may be used to prevent preventing or ameliorate neurodegenerative  
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's  
 CC disease); age-associated neurological disease; neurological injury and  
 CC trauma; immunological diseases of the nervous system (e.g., multiple  
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and  
 CC neuroectodermal tumours. The modifications made to the hedgehog protein  
 CC may result in increased half-life, altered tissue distribution (such as  
 CC an improved ability to stay in the vasculature for longer periods of  
 CC time), increased stability in solution, protection from proteolytic  
 CC degradation, or reduced immunogenicity. In particular, the ability to  
 CC remain in the vasculature for prolonged periods may allow a hedgehog  
 CC protein of the invention to cross the blood-brain barrier, and an  
 CC increased thermal stability would be an advantage when formulating the  
 CC hedgehog protein in powder form. The present sequence represents a human  
 CC Sonic hedgehog mutagenic primer used in an exemplification of the  
 CC invention

XX SQ Sequence 35 BP; 8 A; 15 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 2.9%; Score 12.2; DB 1; Length 35;  
 Best Local Similarity 68.0%; Pred. No. 1.1e+03;  
 Matches 17; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 36 GACGACATGGCCACACTCAGAGG 60  
 Db 10 GTCGAGCAGGCGCTCCACGCCAGG 34

RESULT 905

AAQ52964  
 ID AAQ52964 standard; RNA; 13 BP.

AC AAQ52964;

XX 25-MAR-2003 (revised)

DT 26-MAY-1994 (first entry)

XX Herpes simplex virus target sequence 42.

KW RNA; enzyme; enzymatic RNA molecule; ERM; cleave; RNA; mRNA; HnRNA;  
 KW Picornavirus; HIV; immunodeficiency virus; hepatitis B virus; HBV;  
 KW Papilloma virus; HPV; Epstein-Barr virus; EBV; TGLV;  
 KW T-cell leukaemia virus; hepatitis C virus; HCV; cytomegalovirus;  
 KW influenza virus; HSV; herpes simplex virus; vector; immune response;  
 KW antibody; ribozyme; viral RNA; treatment; ss.

OS Synthetic.

XX WO9323569-A1.

XX 25-NOV-1993.

XX 29-APR-1993; 93WO-US004020.

XX 11-MAY-1992; 92US-00882689.

XX 14-MAY-1992; 92US-00882712.

XX 14-MAY-1992; 92US-00882713.

XX 14-MAY-1992; 92US-00882714.

XX 14-MAY-1992; 92US-00882823.

XX 14-MAY-1992; 92US-00882824.

XX 14-MAY-1992; 92US-00882886.

XX 14-MAY-1992; 92US-00882888.

XX 14-MAY-1992; 92US-00882889.

XX 14-MAY-1992; 92US-00882921.

XX 14-MAY-1992; 92US-00882922.

XX 14-MAY-1992; 92US-00882923.

XX 14-MAY-1992; 92US-00883849.

PR 14-MAY-1992; 92US-00884073.  
 PR 14-MAY-1992; 92US-00884074.  
 PR 14-MAY-1992; 92US-00884333.  
 PR 14-MAY-1992; 92US-00884422.  
 PR 14-MAY-1992; 92US-00884431.  
 PR 14-MAY-1992; 92US-00884436.  
 PR 14-MAY-1992; 92US-00884521.  
 PR 31-JUL-1992; 92US-00923738.  
 PR 26-AUG-1992; 92US-00935854.  
 PR 26-AUG-1992; 92US-00936086.  
 PR 18-SEP-1992; 92US-00948359.  
 PR 15-OCT-1992; 92US-00963322.  
 PR 07-DEC-1992; 92US-00987129.  
 PR 07-DEC-1992; 92US-00987130.  
 PR 07-DEC-1992; 92US-00987133.  
 XX (RIBO-) RIBOZYME PHARM INC.

XX Draper KG, Dudycz LW, Mcswiggen JA, Macejak DG, Holeczek JJ;  
 PI Mamone JA;

XX WPI; 1993-386599/48.

XX Enzymatic RNA molecules - used to inhibit viral replication, infection  
 PT and gene expression.

PS Claim 5; Fig 15; 287pp; English.

XX The sequences (AAQ52923-Q53037) are pref. herpes simplex virus target  
 CC sequences for enzymatic RNA molecules. The RNA molecules are  
 CC complementary to a substrate binding region in the specified gene target.  
 CC They also have enzymatic activity, in that they specifically cleave RNA  
 CC in the target. The ERMs interfere with viral replication and therefore  
 CC have anti-viral properties. They can be used to attenuate viruses to be  
 CC used in vaccines. (Updated on 25-MAR-2003 to correct PN field.) (Updated  
 CC on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct  
 CC PI field.)

XX SQ Sequence 13 BP; 4 A; 3 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 13;  
 Best Local Similarity 91.7%; Pred. No. 2.6e-02;

Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 32 CTCGGACGAAGA 43

Db 1 CUGGACGAAGA 12

RESULT 906

AAX31516/c  
 ID AAX31516 standard; DNA; 15 BP.

XX AAX31516;

XX 21-MAY-1999 (first entry)

XX Tag sequence of a transcript increased in pancreatic cancer.

XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;  
 XX diagnosis; prognosis; treatment; ss.

XX Homo sapiens.

OS WO9853319-A2.

XX 26-NOV-1998.

XX 20-MAY-1998; 98WO-US010277.

XX 21-MAY-1997; 97US-0047352P.

XX (UWJO ) UNIV JOHNS HOPKINS.

PA



XX The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 3.5e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 394 CCAAGAGGTCT 405  
DB 1 CCAAGAGGTCT 12  
|||||  
RESULT 909  
AAF48830  
ID AAF48830 standard; DNA; 15 BP.  
XX AC AAF48830;  
XX DT 30-MAR-2001 (first entry)  
XX DE IGFBP3 oligonucleotide #2251.  
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.  
XX OS Homo sapiens.  
XX PN WO200078341-A1.  
XX PD 28-DEC-2000.  
XX PF 21-JUN-2000; 2000WO-AU000693.  
XX PR 21-JUN-1999; 99US-0140345P.  
XX PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX PI Wright CJ, Werther GA, Edmondson SR;  
XX DR WPI; 2001-041421/05.  
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
XX PT inhibits or reduces growth factor mediated cell proliferation and/or  
XX PT inflammation.  
XX PS Example 7; Page 58; 201pp; English.  
XX CC The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 3.5e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 394 CCAAGAGGTCT 405  
DB 1 CCAAGAGGTCT 12  
|||||  
RESULT 909  
AAF48830  
ID AAF48830 standard; DNA; 15 BP.  
XX AC AAF48830;  
XX DT 30-MAR-2001 (first entry)  
XX DE IGFBP3 oligonucleotide #2251.  
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.  
XX OS Homo sapiens.  
XX PN WO200078341-A1.  
XX PD 28-DEC-2000.  
XX PF 21-JUN-2000; 2000WO-AU000693.  
XX PR 21-JUN-1999; 99US-0140345P.  
XX PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX PI Wright CJ, Werther GA, Edmondson SR;  
XX DR WPI; 2001-041421/05.  
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
XX PT inhibits or reduces growth factor mediated cell proliferation and/or  
XX PT inflammation.  
XX PS Example 7; Page 58; 201pp; English.  
XX CC The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1

CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX SQ Sequence 15 BP; 5 A; 4 C; 4 G; 2 T; 0 U; 0 Other;  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 3.5e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 394 CCAAGAGGTCT 405  
DB 3 CCAAGAGGTCT 14  
|||||  
RESULT 910  
AAF48831  
ID AAF48831 standard; DNA; 15 BP.  
XX AC AAF48831;  
XX DT 30-MAR-2001 (first entry)  
XX DE IGFBP3 oligonucleotide #2251.  
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.  
XX OS Homo sapiens.  
XX PN WO200078341-A1.  
XX PD 28-DEC-2000.  
XX PF 21-JUN-2000; 2000WO-AU000693.  
XX PR 21-JUN-1999; 99US-0140345P.  
XX PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX PI Wright CJ, Werther GA, Edmondson SR;  
XX DR WPI; 2001-041421/05.  
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
XX PT inhibits or reduces growth factor mediated cell proliferation and/or  
XX PT inflammation.  
XX PS Example 7; Page 58; 201pp; English.  
XX CC The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense

CC oligonucleotides of the present invention (see AAP45151 and AAP45153-  
CC P45161). The method is useful for ameliorating the effects of peoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, seborrheoa, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 100.0%; Pred. No. 3.5e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 394 CCAAGAGGCTCT 405  
DB 2 CCAAGAGGCTCT 13  
  
RESULT 911  
AAS99932  
ID AAS99932 standard; DNA; 15 BP.  
XX AC AAS99932;  
XX  
DT 12-MAR-2002 (first entry)  
XX  
DE Even-skipped homeobox 1 (EVX1) gene allele-specific oligonucleotide #9.  
XX  
KW Even-skipped homeo box 1; EVX1; neurological disease; drug screening;  
KW haplotyping; single nucleotide polymorphism; SNP; human; ss;  
KW allele-specific oligonucleotide.  
XX  
OS Homo sapiens.  
XX  
XX WO200190120-A2.  
XX  
XX 29-NOV-2001.  
XX  
XX 21-MAY-2001; 2001WO-US016559.  
XX  
XX 19-MAY-2000; 2000US-0205437P.  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
XX  
XX Duda A, Klieb SE, Kumar AM;  
XX WPI; 2002-089913/12.  
XX  
XX Novel genetic variants of even-skipped homeo box 1, EVX1 gene useful for  
XX therapeutic purposes and for expressing EVX1 protein useful in  
XX identifying drugs to treat neurological diseases.  
XX  
XX Claim 16; Page 13; 69pp; English.  
XX  
XX The invention relates to an isolated polynucleotide (I), comprising a  
XX nucleotide sequence which is a polymorphic variant of a reference  
XX sequence for the even-skipped homeo box 1 (homologue of Drosophila)  
XX (EVX1) gene or its fragment, or a polymorphic variant of a reference  
XX sequence for a EVX1 cDNA or its fragment. EVX1 polypeptide (II) is useful  
XX for screening for drugs targeting the polypeptide, by contacting the EVX1  
XX polymorphic variant with a candidate agent and assaying for binding  
XX activity. A method is described for identifying an association between a  
XX trait such as a clinical response to a drug targeting EVX1 and a  
XX haplotype or haplotype pair of EVX1 gene. The methods are useful in  
XX developing diagnostic tests and therapeutic treatments for neurological  
XX diseases. (I) is useful for studying the expression and function of EVX1  
XX and expressing EVX1 protein for use in screening for candidate drugs to  
XX treat diseases related to EVX1 activity. The polymorphism and haplotype  
XX data are useful for validating whether EVX1 is a suitable target for  
XX drugs to treat neurological diseases, screening for such drugs and  
XX reducing bias in clinical trials of such drugs. (I) is useful for

CC therapeutic purposes. (I) is useful for determining if an individual has  
CC one of the haplotypes 1-4 or the haplotype pairs. Establishing the EVX1  
CC haplotype or haplotype pair of an individual is useful for improving the  
CC efficiency and reliability of several steps in the discovery and  
CC development of drugs for treating diseases associated with EVX1 activity  
CC e.g. neurological diseases. The haplotyping method is useful to validate  
CC EVX1 as a candidate target for treating a specific condition or disease  
CC predicted to be associated with EVX1 activity. (I) is useful for studying  
CC expression of the EVX1 isogenes in vivo, for in vivo screening and  
CC testing of drugs against EVX1 protein and for testing the efficacy of  
CC therapeutic agents and compounds for neurological diseases in a  
CC biological system. Antibody raised against (II) is useful for diagnostic  
CC and prognostic formats and therapeutic methods, for immunoprecipitating  
CC (II) from solution, for detecting EVX1 protein isoforms in biological  
CC samples, frozen tissue sections, cells which have been fixed or unfixed  
CC and prepared on slides, for use in immunocytochemical,  
CC immunohistochemical and immunofluorescence techniques. AAS99924-AAS99958  
CC represent human EVX1 gene allele-specific oligonucleotides of the  
CC invention  
XX  
SQ Sequence 15 BP; 2 A; 6 C; 6 G; 0 T; 0 U; 1 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
  
QY 106 ACCGCGACCCGACG 119  
DB 1 ACCGCGACCCGCGY 14  
  
RESULT 912  
ABK70537  
ID ABK70537 standard; DNA; 15 BP.  
XX AC ABK70537;  
XX  
DT 15-JUL-2002 (first entry)  
XX  
DE Human G protein-coupled receptor 7 allele-specific probe #21.  
XX  
XX Human; G protein-coupled receptor 7; GPR7; haplotyping; SNP;  
XX psychological disorder; neurological disorder; probe; ss;  
XX single nucleotide polymorphism.  
XX  
XX Homo sapiens.  
XX  
XX WO200222644-A1.  
XX  
XX 21-MAR-2002.  
XX  
XX 17-SEP-2001; 2001WO-US029207.  
XX  
XX 15-SEP-2000; 2000US-0232900P.  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
XX  
XX Koshy B, Sanchis A, Tirrell C;  
XX WPI; 2002-383121/41.  
XX  
XX Novel genetic variants of G protein-coupled receptor 7 gene useful for  
XX therapeutic purposes and for expressing GPR7 protein useful in  
XX identifying drugs to treat psychological and neurological disorders.  
XX  
XX Claim 16; Page 13; 69pp; English.  
XX  
XX The invention relates to an isolated polynucleotide (I) comprising a  
XX nucleotide sequence which is a polymorphic variant of a reference  
XX sequence for G-protein coupled receptor 7 (GPR7) gene or its fragment, or  
XX a polymorphic variant of a reference sequence for a GPR7 cDNA or its  
XX fragment. The encoded polypeptide (II) is useful for screening for drugs  
XX targeting the polypeptide. (I) is useful for identifying an association

CC between a trait such as a clinical response to a drug targeting GPR7 and  
 CC a haplotype or haplotype pair of GPR7 gene. Such methods have  
 CC applicability in developing diagnostic tests and therapeutic treatments  
 CC psychological and neurological disorders. (I) is useful for studying the  
 CC expression and function of GPR7 and expressing GPR7 protein for use in  
 CC screening for candidate drugs to treat diseases related to GPR7 activity.  
 CC The polymorphism and haplotype data are useful for validating whether  
 CC GPR7 is a suitable target for drugs to treat psychological and  
 CC neurological disorders, screening for such drugs and reducing bias in  
 CC clinical trials of such drugs. (I) is useful for therapeutic purposes.  
 CC Establishing the GPR7 haplotype or haplotype pair of an individual is  
 CC useful for improving the efficiency and reliability of several steps in  
 CC the discovery and development of drugs for treating diseases associated  
 CC with GPR7 activity psychological and neurological disorders. The  
 CC haplotyping method is useful to validate GPR7 as a candidate target for  
 CC treating a specific condition or disease predicted to be associated with  
 CC GPR7 activity. The method is also useful in screening for compounds  
 CC targeting GPR7 to treat a specific condition or disease predicted to be  
 CC associated with GPR7 activity, e.g. detecting which of the GPR7  
 CC haplotypes or haplotype pairs present in individual members of a  
 CC population with the specific disease of interest enables one to screen  
 CC for compounds that display the highest desired agonist or antagonist  
 CC activity for each of the most frequent GPR7 isoforms present in the  
 CC disease population. A polymorphic variant of GPR7 is useful in studying  
 CC the effect of the variation on the biological activity of GPR7, on the  
 CC binding affinity of candidate drugs targeting GPR7 for the treatment of  
 CC psychological and neurological disorders and in assays to measure the  
 CC binding affinities of one or more candidate drugs targeting the GPR7  
 CC protein. (I) is useful for studying expression of the GPR7 isoforms in  
 CC vivo, for in vivo screening and testing of drugs against GPR7 protein and  
 CC for testing the efficacy of therapeutic agents and compounds for  
 CC psychological and neurological disorders in a biological system. Antibody  
 CC to (II) is useful for diagnostic and prognostic formats and therapeutic  
 CC methods, for immunoprecipitating (II) from solution, for detecting GPR7  
 CC protein isoforms in biological samples, frozen tissue sections, cells  
 CC which have been fixed or unfixed and prepared on slides, for use in  
 CC immunocytochemical, immunohistochemical and immunofluorescence  
 CC techniques. ABK70517-ABK70558 represent human GPR7 allele-specific probes  
 CC and primers used in haplotyping of human GPR7 as described in the  
 CC invention  
 XX  
 SQ Sequence 15 BP; 3 A; 4 C; 7 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;  
 Best Local Similarity 85.7%; Pred. NO. 3.5e+02;  
 Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 333 GACGACGAGGCGC 346  
 DB 2 GACGAGCAGGCGC 15  
 RESULT 913  
 ABN80596/c  
 ID ABN80596 standard; DNA; 15 BP.  
 AC ABN80596;  
 DT 19-JUL-2002 (first entry)  
 DE Human P450(cytochrome) oxidoreductase allele specific PCR primer #36.  
 XX Human; P450(cytochrome) oxidoreductase; POR; cancer; haplotype; SNP;  
 KW single nucleotide polymorphism; flavoprotein; enzyme; PCR; primer; ss.  
 OS Homo sapiens.  
 XX  
 XX WO200226768-A2.  
 PN  
 PD 04-APR-2002.  
 PF 01-OCT-2001; 2001WO-US030877.  
 XX

PR 29-SEP-2000; 2000US-0236449P.  
 XX (GENA-) GENAISSANCE PHARM INC.  
 PA Kazemi A, Kliem SE, Lanz EM, Messer C, Tanguay DA;  
 PI WPI; 2002-394236/42.  
 DR  
 XX New genetic variants comprising haplotypes of the P450 (cytochrome)  
 FT oxidoreductase (POR) isogene, useful in improving the efficiency of drug  
 PT screening protocols for compounds targeting POR.  
 XX  
 PS Claim 14; Page 15; 141pp; English.  
 XX  
 CC The present invention provides the protein, gene and cDNA sequences of  
 CC human P450(cytochrome) oxidoreductase POR, and single nucleotide  
 CC polymorphisms (SNPs) identified therein. The sequences can be used to  
 CC haplotype the POR gene of an individual, and to establish whether POR is  
 CC a suitable target for drugs to treat cancer and disorders associated with  
 CC impaired protein synthesis in cells. The present sequence is an allele  
 CC specific primer for the coding sequences of the invention  
 XX  
 SQ Sequence 15 BP; 2 A; 9 C; 2 G; 1 T; 0 U; 1 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 15;  
 Best Local Similarity 85.7%; Pred. NO. 3.5e+02;  
 Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 139 GCCTGCGCGTGGAG 152  
 DB 15 GGTGCGCGTGGAG 2  
 RESULT 914  
 ABN87913/c  
 ID ABN87913 standard; DNA; 15 BP.  
 AC ABN87913;  
 DT 12-AUG-2002 (first entry)  
 XX  
 DE Human GSR allele specific oligonucleotide primer SEQ ID NO:32.  
 XX  
 KW Human; glutathione reductase; GSR; enzyme; haemolytic anaemia; SNP;  
 KW gene therapy; antianemic; polymorphic; single nucleotide polymorphism;  
 KW primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX Key Location/Qualifiers  
 FT misc\_feature 14  
 FT /\*tag= a  
 FT /note= "polymorphic base"  
 XX  
 XX WO200242320-A2.  
 XX  
 PD 30-MAY-2002.  
 XX  
 XX 13-NOV-2001; 2001WO-US046473.  
 XX  
 XX 10-NOV-2000; 2000US-0247202P.  
 XX  
 XX (GENA-) GENAISSANCE PHARM INC.  
 XX  
 XX Bieglecki KV, Sanchis A, Sausker EA, Sun X;  
 PI WPI; 2002-471719/50.  
 DR  
 XX New genetic variants of Glutathione reductase isogenes, useful for  
 PT improving efficiency and reliability in drug development for treating  
 PT hemolytic anemia.  
 XX  
 XX Claim 14; Page 14; 137pp; English.  
 PS

XX The present invention describes genetic variants of the human glutathione  
CC reductase (GSR) gene (I). (I) has antianaemic activity and can be used in  
CC gene therapy. (I) can be used in screening for drugs targeting (I) that  
CC are useful for treating haemolytic anaemia. Methods from the present  
CC invention can be used for improving the efficiency and reliability of  
CC several steps in the discovery and development of drugs for treating  
CC diseases associated with GSR activity; for haplotyping, which is also  
CC used by the pharmaceutical research scientist to validate GSR as a  
CC candidate target for treating a specific condition or disease predicted  
CC to be associated with GSR activity, e.g. haemolytic anaemia, and in the  
CC design of clinical trials for treating a specific condition of disease  
CC associated with GSR activity; and for screening compounds targeting GSR.  
CC (I) is useful in studying the expression and function of GSR, and in  
CC expressing GSR protein for use in screening for candidate drugs to treat  
CC diseases related to GSR activity. (I) is also useful in studying the  
CC effect of the variation on the biological activity of GSR as well as on  
CC the binding affinity of candidate drugs targeting GSR for the treatment  
CC of haemolytic anaemia. The present sequence represents an allele specific  
CC oligonucleotide (ASO) primer for the human GSR gene, which is given in  
CC the exemplification of the present invention. N.B. The polymorphic base  
CC (showing a single nucleotide polymorphism) in the ASO primer is shown  
CC using an IUPAC ambiguity code (as given in the present invention)  
XX  
SQ Sequence 15 BP; 1 A; 8 C; 4 G; 1 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 320 CGTCTGGCGCGG 333  
: |||||  
Db 14 MGACTGGCGCGG 1

RESULT 915  
ABL51980  
ID ABL51980 standard; DNA; 15 BP.  
AC ABL51980;  
XX  
DT 11-JUL-2002 (first entry)  
XX  
DE Human SLC18A2 allele specific oligonucleotide primer SEQ ID NO:28.  
XX  
KW Human; solute carrier family 18 member 2; SLC18A2; vesicular monoamine;  
KW vesicular monoamine transporter; VMAT2; polymorphic site; SNP;  
KW single nucleotide polymorphism; antiinflammatory; neuroleptic;  
KW haplotyping; genotyping; respiratory inflammatory disease;  
KW neuropsychiatric disorder; monoaminergic brain system; primer; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT misc\_feature 14  
FT /\*tag= a  
FT /note= "polymorphic site indicated by an ambiguity base"  
XX  
PN WO200222652-A2.  
XX  
PD 21-MAR-2002.  
XX  
PF 17-SEP-2001; 2001WO-US042217.  
XX  
PR 15-SEP-2000; 2000US-0232895P.  
XX  
PA (GENA-) GENAISSANCE PHARM INC.  
XX  
PI Anastasio AE, Han J, Klieh SE, Sausker EA;  
XX WPI; 2002-393942/42.  
XX  
PT Novel genetic variants of soluble carrier family 18 (vesicular

monoamine), member 2 gene useful for screening drugs to treat diseases  
e.g. neuropsychiatric disorders involving monoaminergic brain systems.  
Claim 17; Page 14; 183pp; English.

The present invention describes an isolated polynucleotide (I) having a  
sequence (S1) comprising soluble carrier family 18 (vesicular monoamine),  
member 2 (SLC18A2) isogene selected from 49 isogenes with regions of a  
sequence (SS) of 4023 bp (see ABL51954), and defined by a corresponding  
set of polymorphisms whose locations and identities are given in the  
CC specification; or a sequence (S2) complementary to (S1). (I) has  
CC antiinflammatory and neuroleptic activities, and can be used in gene  
CC therapy. Methods from the present invention can be used for haplotyping  
CC and genotyping the SLC18A2 gene in an individual. SLC18A2 is also known  
CC as the vesicular monoamine transporter (VMAT2). (I) is useful in studying  
CC the expression and function of SLC18A2, and in expressing the SLC18A2  
CC protein for use in screening for candidate drugs to treat diseases  
CC related to SLC18A2 activity and in studying the effect of the variation  
CC on the biological activity of SLC18A2 as well as on the binding affinity  
CC of candidate drugs targeting SLC18A2 for the treatment of respiratory  
CC inflammatory diseases such as neuropsychiatric disorders involving  
CC monoaminergic brain systems. The present sequence represents an allele  
CC specific oligonucleotide (ASO) primer for human SLC18A2, which is given  
CC in the present invention  
XX

Sequence 15 BP; 2 A; 7 C; 5 G; 0 T; 0 U; 1 Other;

Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 106 ACCGCGACCGCAGC 119  
: |||||  
Db 1 ACCGCGCGCGCAGY 14

RESULT 916  
AAS19726/C  
ID AAS19726 standard; DNA; 15 BP.  
AC AAS19726;  
XX

DT 08-MAY-2002 (first entry)

DE ASO probe #23 to detect human RANGAP1 gene polymorphisms.

XX Human; single nucleotide polymorphism; SNP; RANGAP1;  
KW haplotyping chromosome 22q13.2-q13.31; Ran GTPase activating protein 1;  
KW genotyping; cancer; irregular cell cycle associated disorder; ASO; probe;  
KW ss; allele-specific oligonucleotide.

OS Homo sapiens.

PN WO200179240-A2.

PD 25-OCT-2001.

PF 17-APR-2001; 2001WO-US012455.

PR 17-APR-2000; 2000US-0198072P.

PA (GENA-) GENAISSANCE PHARM INC.

PI Chew A, Choi JV, Koshy B;

XX WPI; 2002-075068/10.

XX Genotyping human Ran GTPase activating protein 1 gene of individual for  
XX determining haplotype of individual, involves determining identity of  
XX nucleotide pair at specific polymorphic sites for two copies of the gene.

XX Claim 15; Page 14; 148pp; English.

CC The present invention relates to novel single nucleotide polymorphisms  
CC (SNPs) in the human Ran GTPase activating protein 1 (RANGAP1) gene  
CC located on chromosome 22q13.2-q13.31, and methods for haplotyping and/or  
CC genotyping the RANGAP1 gene. The methods of the invention make use of  
CC allele-specific oligonucleotides (ASOs) as probes and primers and/or  
CC primer-extension oligonucleotides for detecting the RANGAP1 gene  
CC polymorphisms. The polynucleotides and screened compounds are useful for  
CC treatment of diseases associated with RANGAP1 activity, such as cancer  
CC and other disorders associated with an irregular cell cycle. AAS19704-  
CC AAS19742 represent ASO probes for detecting human RANGAP1 gene  
CC polymorphisms  
XX  
SQ Sequence 15 BP; 2 A; 5 C; 4 G; 3 T; 0 U; 1 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 56 AGAGAGTCTCTGC 69  
Db 15 AGAGGAGYCCCTGC 2  
  
RESULT 917  
AAS97315/C  
ID AAS97315 standard; DNA; 15 BP.  
XX AC AAS97315;  
XX AC AAS97315;  
DT 12-MAR-2002 (first entry)  
XX DE Human CRYBB1 gene ASO probe #10.  
XX DE Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;  
KW cataract; allele specific oligonucleotide; ASO; probe; ss; haplotype;  
KW genotyping; transgenic animal.  
XX OS Homo sapiens.  
XX OS WO20018598-A1.  
XX PN 15-NOV-2001.  
XX PD 07-MAY-2001; 2001WO-US014715.  
XX PF 05-MAY-2000; 2000US-0202253P.  
XX PR (GENA-) GENAISANCE PHARM INC.  
XX PA Choi JY, Kazemi A, Kliem SE, Koshy B, Rounds E;  
XX PI WPI; 2002-062253/08.  
XX DR Novel polymorphic variants of crystallin, beta B1 useful in studying  
PT expression and function of the protein, useful for screening candidate  
PT drugs to treat diseases e.g. cataract.  
XX PS Claim 15; Page 12; 94pp; English.  
XX PS The invention relates to an isolated polynucleotide comprising a sequence  
CC which is a polymorphic variant of a reference sequence for crystallin,  
CC beta B1 (CRYBB1), located on chromosome 22q12.1) Gene or their fragment,  
CC where the polymorphic variant comprises a CRYBB1 isogene defined by a  
CC haplotype from haplotypes 1-16 as given in the specification. Also  
CC included are a transgenic non-human animal transformed or transfected  
CC with the polymorphic variant, a computer system for storing and analysing  
CC polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene  
CC which comprises the defined CRYBB1 isogenes, methods of determining an  
CC individuals haplotype or genotype as well as methods of determining the  
CC association of a particular haplotype with a disease or trait and a  
CC composition comprising at least one genotyping oligonucleotide  
CC (especially allele-specific oligonucleotides (ASO)) for detecting a  
CC polymorphism in the CRYBB1. The isogenes or haplotypes are useful for

CC improving the efficiency and reliability of several steps in the  
CC discovery and development of drugs for treating diseases associated with  
CC CRYBB1 activity, e.g. cataract, and can also be used by the  
CC pharmaceutical research scientist to validate CRYBB1 as a candidate  
CC target for, and in design of clinical trials of candidate drugs for,  
CC treating a specific condition or disease predicted to be associated  
CC with CRYBB1 activity. The ASOs are useful as probes and primers, and for  
CC assaying a polymorphism in the target region. The present sequence is an  
CC ASO probe for CRYBB1  
XX  
SQ Sequence 15 BP; 3 A; 3 C; 8 G; 0 T; 0 U; 1 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 132 CTGGCCCGCCTGC 145  
Db 15 CTGGCCCGCCTGC 2  
  
RESULT 918  
AAL46088/c  
ID AAL46088 standard; DNA; 15 BP.  
XX AC AAL46088;  
XX AC AAL46088;  
DT 11-JUL-2002 (first entry)  
XX DE Human pro-platelet basic protein DNA allele-specific probe #4.  
XX DE Human; pro-platelet basic protein; PPBP; metabolic disorder;  
KW immunological disorder; SNP; single nucleotide polymorphism;  
KW immunomodulator; chromosome 4q12-13; probe; ss.  
XX OS Homo sapiens.  
XX OS WO200229114-A1.  
XX PN 11-APR-2002.  
XX PD 09-OCT-2001; 2001WO-US031509.  
XX PF 06-OCT-2000; 2000US-0238692P.  
XX PR (GENA-) GENAISANCE PHARM INC.  
XX PA Chew A, Choi JY, Russo DP;  
XX PI WPI; 2002-394352/42.  
XX DR New Pro-Platelet Basic Protein (PPBP) gene polymorphic variants, useful  
PT for studying the expression and function of PPBP and screening candidate  
PT drugs for treating disorders associated with PPBP activity, e.g.  
PT immunological disorders.  
XX PS Claim 14; Page 12; 68pp; English.  
XX PS The present invention provides the protein, cDNA and genomic sequences of  
CC human pro-platelet basic protein (PPBP) and single nucleotide  
CC polymorphisms (SNPs) identified therein. The polymorphic variants are  
CC useful in studying the expression and function of PPBP, in expressing  
CC PPBP protein for use in screening for candidate drugs to treat diseases  
CC related to PPBP activity in studying the effect of the variation on the  
CC biological activity of PPBP, and the binding affinity of candidate drugs  
CC targeting PPBP for the treatment of disorders associated with PPBP  
CC activity, e.g. metabolic and immunological disorders. The present  
CC sequence is an allele specific probe for the gene of the invention  
XX  
SQ Sequence 15 BP; 2 A; 4 C; 5 G; 3 T; 0 U; 1 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 15;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;

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Matches	12;	Conservative	1;	Mismatches	1;	Indels	0;	Gaps	0;
QY	282	GGCACCACAGCTGCT	295						
Db	15	GGCACCACGCTAGT	2						
		:							
RESULT 919									
ABK32470/c									
ID	ABK32470	standard; DNA; 15 BP.							
XX	AC								
XX	ABK32470;								
DT	23-APR-2002	(first entry)							
XX									
DE	Human pancreatic cancer	SAGE tag #22.							
XX									
KW	Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;								
KW	serial analysis of gene expression; diagnostic; prognostic; probe;								
KW	cancer marker; ss.								
XX									
XX	Homo sapiens.								
XX									
PN	US6333152-B1.								
XX									
PD	25-DEC-2001.								
XX									
PF	20-MAY-1998; 98US-00081646.								
XX									
PR	20-MAY-1998; 98US-00081646.								
XX									
PA	(UWJO ) UNIV JOHNS HOPKINS.								
XX									
PI	Vogelstein B, Kinzler KW, Zhang L, Zhou W;								
XX									
DR	WPI; 2002-153821/20.								
XX									
PT	New human nucleic acid containing specific SAGE tags, useful as								
PT	diagnostic markers for cancer, also derived probes.								
XX									
PS	Disclosure; Col 65; 161pp; English.								
XX									
CC	The invention relates to an isolated, purified human nucleic acid (I)								
CC	that has the same sequence as a mRNA found in humans and is a SAGE								
CC	(serial analysis of gene expression) tag comprising a single stranded								
CC	probe containing at least 10 consecutive nucleotides. SAGE tags, are								
CC	diagnostic and prognostic markers of cancer, especially of the colon and								
CC	pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer								
CC	SAGE tags of the invention								
XX									
SQ	Sequence 15 BP; 3 A; 2 C; 6 G; 4 T; 0 U; 0 Other;								
Query Match	2.8%;	Score 12;	DB 1;	Length 15;					
Best Local Similarity	100.0%;	Pred. No. 3.5e+02;							
Matches	12;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	92	CATCACCACGTC	103						
Db	15	CATCACCACGTC	4						
RESULT 920									
AAQ21895									
ID	AAQ21895	standard; DNA; 16 BP.							
XX									
AC	AAQ21895;								
XX									
DT	11-JUN-1992	(first entry)							
XX									
DE	TEG-terminated exonuclease stable oligonucleotide #9.								
XX									
KW	tetraethylene glycol; cancer; antisense; gene expression; inhibition;								
KW	diol; ss.								

XX	Synthetic.
XX	Key modified_base 1 Location/Qualifiers
XX	/tag= a
XX	/mod_base= OTHER
XX	/note= "see comments"
XX	modified_base 15
XX	/tag= b
XX	/mod_base= OTHER
XX	/note= "see comments"
XX	W09202534-A.
XX	20-FEB-1992.
XX	03-AUG-1990; 90US-00562180.
XX	03-AUG-1990; 90US-00562180.
XX	13-SEP-1990; 90US-00582287.
XX	13-SEP-1990; 90US-00582456.
XX	13-SEP-1990; 90US-00582457.
XX	09-APR-1991; 91US-00682784.
XX	(STER ) STERLING DRUG INC.
XX	Weis AL, Hausheer FH, Chaturvedu PVC, Delecki DJ, Cavanaugh PF;
XX	Moskwa PS, Oakes FT;
XX	WPI; 1992-080016/10.
XX	New oligo nucleoside(s) and nucleotide(s) with up to 200 bases - nuclease
XX	resistant anti sense cpds. useful for treating hereditary disorders of
XX	altered genetic expression mechanisms.
XX	Example 42; Page 70; 90pp; English.
XX	Two TEG molecules joined via a phosphate group are attached to the 5'
XX	terminus. The guanosine residue at position 15 is attached to the 3'
XX	adenosine residue by two TEG molecules which are joined via a phosphate
XX	group. The diol-contg. linking group forms phosphodiester bonds with G
XX	and A. The resulting oligonucleotide is resistant to exonuclease
XX	degradation. See also AAQ21884-Q21894 and AAQ21896-Q21918
XX	Sequence 16 BP; 2 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
XX	Query Match 2.8%; Score 12; DB 1; Length 16;
XX	Best Local Similarity 100.0%; Pred. No. 4e+02;
XX	Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	235 CGGAGGGCTGCT 246
DB	
	2 CGGAGGGCTGCT 13
RESULT 921	
AAK62954/c	
ID AAK62954 standard; RNA; 17 BP.	
XX	
XX	AAK62954;
AC	
XX	
DT 16-JUL-1999 (first entry)	
XX	
DE Delta-9 desaturase hamerhead ribozyme target SEQ ID NO:829.	
XX	
KW Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;	
KW granule bound starch synthase; hamerhead ribozyme; hairpin ribozyme;	
KW modulation; gene expression; transgenic plant; cleavage; canola plant;	
KW caffeine synthesis; coffee plant; nicotine production; tobacco;	
KW fruit ripening; flower pigmentation; lignin production; ss.	
XX	
Zea mays.	
OS	



XX PN W09710328-A2.  
XX PD 20-MAR-1997.  
XX PF 12-JUL-1996; 96WO-US011689.  
XX PR 13-JUL-1995; 95US-0001135P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PA (DOWC) DOWLANCO.  
XX PI Zwick MG, Edington BE, Mcswiggen JA, Merlo PAO, Guo L, Skokut TA;  
XX PI Young SA, Folkerts O, Merlo DJ;  
XX PF WPI; 1997-202224/18.  
XX PR Ribozyme which modulates plant gene expression - preferably modulates  
XX PT expression of DELTA-9 desaturase or granule bound starch synthase in  
XX PT maize or canola.  
XX PS Claim 38; Page 86; 155pp; English.  
XX CC The present invention describes an enzymatic nucleic acid molecule (I)  
XX CC with RNA cleaving activity, which modulates the expression of a plant  
XX CC gene. Also described is a gene comprising a cDNA sequence encoding maize  
XX CC Delta-9 desaturase. (I) can be used to modulate expression of a gene,  
XX CC preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)  
XX CC gene, in a plant (preferably a maize or canola plant). (I) can be used to  
XX CC modulate caffeine synthesis in a coffee plant, nicotine production in a  
XX CC tobacco plant, fruit ripening processes in an apple, tomato, pear, plum  
XX CC or peach plant, flower pigmentation in a rose, pecunia, chrysanthemum or  
XX CC marigold plant or lignin production in a tobacco, aspen, poplar or pine  
XX CC plant  
XX CC Sequence 17 BP; 2 A; 5 C; 3 G; 0 T; 7 U; 0 Other;  
XX CC  
XX CC Query Match 2.8%; Score 12; DB 1; Length 17;  
XX CC Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
XX CC Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX CC  
XX QY 120 AAGTACGGCATG 131  
XX DB 12 AAGTACGGCATG 1  
XX  
XX RESULT 922  
XX AAV92424/c  
XX ID AAV92424 standard; RNA; 17 BP.  
XX AC AAV92424;  
XX DT 18-FEB-1999 (first entry)  
XX DE Human A-Raf substrate position 511.  
XX KW Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;  
XX KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;  
XX KW screening; identification; synthesis; deprotection; purification; cancer;  
XX KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;  
XX KW restenosis; rheumatoid arthritis; ss.  
XX OS Homo sapiens.  
XX KW WO9850530-A2.  
XX PN 12-NOV-1998.  
XX PD 05-MAY-1998; 98WO-US009249.  
XX PF 09-MAY-1997; 97US-0046059P.  
XX PR 09-JUN-1997; 97US-0049002P.  
XX PR 03-JUL-1997; 97US-0051718P.

XX PR 22-AUG-1997; 97US-0056808P.  
XX PR 02-OCT-1997; 97US-0061321P.  
XX PR 02-OCT-1997; 97US-0061324P.  
XX PR 05-NOV-1997; 97US-0064866P.  
XX PR 19-DEC-1997; 97US-0068212P.  
XX XX (RIBO-) RIBOZYME PHARM INC.  
XX PA Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;  
XX PI Parry T, Beigelman L, Mcswiggen JA, Karpeisky A, Burgin A;  
XX PI Thompson J, Workman CT, Beaudry A, Sweedler D;  
XX XX WPI; 1999-009494/01.  
XX DR Identifying new catalytic nucleic acid that modulates selected processes  
XX XX - especially ribozymes that cleave Raf RNA for treating cancer,  
XX PT restenosis, and also new ribozymes and modified nucleoside triphosphates  
XX PT used as antiviral agents and synthons.  
XX XX Claim 177; Page 157; 259pp; English.  
XX XX A method has been developed for the identification of a nucleic acid  
XX CC capable of modulating a process in a biological system. The method  
XX CC comprises: (a) introducing into the system a random library of nucleic  
XX CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising  
XX CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC  
XX CC in systems where modulation has occurred and/or determining the sequence  
XX CC of at least part of the SBDs in such systems. Nucleic acid molecules with  
XX CC endonuclease activity and catalytic activity, from the present invention,  
XX CC are used to modulate gene expression in plant and mammalian cells and to  
XX CC cleave target nucleic acid, particularly for treating systemic diseases  
XX CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic  
XX CC ascites and infection. They may also be used to detect genetic drift and  
XX CC mutations in diseased cells and to determine c-raf RNA. Specifically NACs  
XX CC with RNA-cleaving activity that modulate expression of the Raf gene, are  
XX CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or  
XX CC generally any condition associated with the level of c-raf. Introduction  
XX CC of sugar/phosphate modifications increases stability against nuclease and  
XX CC activity. AAV90922 to AAV93877 represent NACs that can be used in the  
XX CC method, specifically for modulating the expression of a Raf gene  
XX CC  
XX CC Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;  
XX CC  
XX CC Query Match 2.8%; Score 12; DB 1; Length 17;  
XX CC Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
XX CC Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX CC  
XX QY 396 AAGAGGTCTTC 407  
XX DB 12 AAGAGGTCTTC 1  
XX  
XX RESULT 923  
XX ABN01021  
XX ID ABN01021 standard; DNA; 17 BP.  
XX AC ABN01021;  
XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPL-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1013.  
XX KW Human; genome-derived myosin-like protein 1; GDMPL-1; hGDMPL-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX KW WO200192524-A2.  
XX PN 06-DEC-2001.  
XX PD 25-MAY-2001; 2001WO-US016981.  
XX PF

XX PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234497P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GS-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001WO-US000670.  
 XX PR 05-FEB-2001; 2001US-0266860P.  
 PA (AEOM-) AEOMICA INC.  
 XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX PR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX PR  
 XX PS Disclosure; SEQ ID NO 1013; 214pp; English.  
 XX CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, co  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX PR  
 XX PS Sequence 17 BP; 8 A; 1 C; 8 G; 0 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 206 GAAAGCAGAGAA 217  
 DB 2 GAAAGCAGAGAA 13  
 RESULT 924  
 ABK17447/c  
 ID ABK17447 standard; RNA; 17 BP.  
 XX AC ABK17447;  
 XX XX  
 XX DT 09-APR-2002 (first entry)  
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 94.  
 XX PR

KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberosus sclerosus; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Oster-Weber-rendu syndrome; leukaemia; osteoporosis; DNzyme; inozyme;  
 KW amberzyme.  
 OS Homo sapiens.  
 XX WO200188124-A2.  
 XX 22-NOV-2001.  
 XX 16-MAY-2001; 2001WO-US015866.  
 XX 16-MAY-2000; 2000US-00572021.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (GLAX) GLAXO GROUP LTD.  
 XX Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX WPI; 2002-082395/11.  
 XX Novel polynucleotide which down regulates expression of Ets-related gene,  
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX Claim 4; Page 60; 149pp; English.  
 XX The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberosus sclerosus, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Oster-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX PR  
 XX PS Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 56 AGAGGAGTCTCT 67  
 DB 13 AGAGGAGTCTCT 2

RESULT 925  
 ABK18041/c  
 ID ABK18041 standard; RNA; 17 BP.

XX AC ABK18041;  
 XX DT  
 XX DE  
 XX DE 09-APR-2002 (first entry)  
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 688.  
 XX DE  
 XX DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;  
 XX DE ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 XX DE vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 XX DE tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 XX DE neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 XX DE angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 XX DE Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 XX DE Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;  
 XX DE amberzyme.  
 XX OS Homo sapiens.  
 XX OS WO200188124-A2.  
 XX PN 22-NOV-2001.  
 XX PF 16-MAY-2001; 2001WO-US015866.  
 XX PF 16-MAY-2000; 2000US-00572021.  
 XX PR (RIBO-) RIBOZYME PHARM INC.  
 XX PA (GLAX) GLAXO GROUP LTD.  
 XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX DR WPI; 2002-082995/11.  
 XX DR Novel polynucleotide which down regulates expression of Ets-related gene,  
 XX PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 XX PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX PS Claim 4; Page 71; 149pp; English.  
 XX CC The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 56 AGAGGAGTCTCT 67

Db 14 AGAGGAGTCTCT 3  
 RESULT 926  
 ABK18042/c  
 ID ABK18042 standard; RNA; 17 BP.  
 XX AC ABK18042;  
 XX DT 09-APR-2002 (first entry)  
 XX DE Human ERG hammerhead ribozyme target sequence, Seq ID No 689.  
 XX DE  
 XX DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;  
 XX DE ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 XX DE vulvar; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 XX DE tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 XX DE neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 XX DE angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 XX DE Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 XX DE Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;  
 XX DE amberzyme.  
 XX OS Homo sapiens.  
 XX OS WO200188124-A2.  
 XX PN 22-NOV-2001.  
 XX PF 16-MAY-2001; 2001WO-US015866.  
 XX PF 16-MAY-2000; 2000US-00572021.  
 XX PR (RIBO-) RIBOZYME PHARM INC.  
 XX PA (GLAX) GLAXO GROUP LTD.  
 XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX DR WPI; 2002-082995/11.  
 XX DR Novel polynucleotide which down regulates expression of Ets-related gene,  
 XX PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 XX PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX PS Claim 4; Page 71; 149pp; English.  
 XX CC The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX SQ

SQ Sequence 17 BP; 4 A; 7 C; 2 G; 0 T; 4 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCT 67  
 |||||  
 Db 12 AGAGGAGTCTCT 1

RESULT 927  
 ABK18967/c  
 ID ABK18967 standard; RNA; 17 BP.  
 XX  
 AC ABK18967;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Human ERG DNAzyme target sequence Seq ID No 1614.  
 DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;  
 KW amberzyme.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200188124-A2.  
 PN 22-NOV-2001.  
 PD  
 XX  
 PF 16-MAY-2001; 2001WO-US015866.  
 XX  
 PR 16-MAY-2000; 2000US-00572021.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (GLAX) GLAXO GROUP LTD.  
 XX  
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX  
 DR WPI; 2002-082995/11.  
 XX  
 PS Novel polynucleotide which down regulates expression of Ets-related gene,  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (II) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to

CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK2719 represent nucleic acids, including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 XX  
 SQ Sequence 17 BP; 4 A; 5 C; 3 G; 0 T; 5 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 AGAGGAGTCTCT 67  
 |||||  
 Db 16 AGAGGAGTCTCT 5

RESULT 928  
 ABK19225/c  
 ID ABK19225 standard; RNA; 17 BP.  
 XX  
 AC ABK19225;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Human ERG Amberzyme target sequence Seq ID No 1872.  
 DE Human; hammerhead ribozyme; cytosolic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Osler-Weber-rendu syndrome; leukaemia; osteoporosis; DNAzyme; inozyme;  
 KW amberzyme.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200188124-A2.  
 PN 22-NOV-2001.  
 PD  
 XX  
 PF 16-MAY-2001; 2001WO-US015866.  
 XX  
 PR 16-MAY-2000; 2000US-00572021.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (GLAX) GLAXO GROUP LTD.  
 XX  
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX  
 DR WPI; 2002-082995/11.  
 XX  
 PS Novel polynucleotide which down regulates expression of Ets-related gene,  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (II) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg2+. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to

CC angiogenesis is treated by administering (I) to the patient in  
CC conjunction with one or more of other therapies such as radiation or  
CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
CC cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
CC diseases related to the expression of ERG, and as diagnostic tool to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of ERG RNA in a cell. (I) is useful for specifically  
CC targeting genes that share homology with ERG gene or ERG fusion genes.  
CC ABK17354-ABK22719 represent nucleic acids, including antisense and  
CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
CC related PCR primers of the invention  
XX  
SQ Sequence 17 BP; 4 A; 6 C; 3 G; 0 T; 4 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 56 AGAGGAGTCTCT 67  
Db |||||  
17 AGAGGAGTCTCT 6  
  
RESULT 929  
ID ABV91040/c  
XX AC ABV91040;  
XX 23-DEC-2002 (first entry)  
DT Human POSHL1 scanning oligonucleotide SEQ ID NO 1753.  
DE Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;  
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;  
KW gene therapy; transgenic; ss.  
XX Homo sapiens.  
OS EPI239051-A2.  
PN 11-SEP-2002.  
PD 28-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 23-MAY-2001; 2001US-00864761.  
PR 10-OCT-2001; 2001US-0328205P.  
XX (AEOM-) AEOMICA INC.  
XX Shannon M;  
XX WPI; 2002-684061/74.  
DR Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL  
PT -1, useful for treating disorders associated with decreased expression or  
PT activity of human POSHL1.  
XX  
PS Example 2; SEQ ID NO 1753; 60pp + Sequence Listing; English.  
XX  
XX The invention relates to an isolated SH3 domain (POSH)-like signalling  
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino  
CC acids (S1, ABB83999), a sequence having 65% sequence identity to (S1),  
CC

CC (S1) having 95% deviations, especially conservative substitutions or a  
CC fragment of the sequences comprising at least 8 contiguous amino acids.  
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an  
CC adaptor protein that interacts with Rho family small GTPases as well as  
CC downstream components of the signal transduction pathway. (I) is useful  
CC for identifying a specific binding partner. (I) and nucleic acids (II)  
CC encoding (II) are useful for diagnosing, monitoring disease and treating  
CC caused by altered expression of human POSHL1 including diagnosing and  
CC treating cancer, they are useful in the development of vaccines and (II) is  
CC useful in gene therapy. (II) is useful for constructing microarrays which  
CC are useful for measuring and for surveying gene expression and creating  
CC transgenic non-human animals capable of producing the proteins. The  
CC present sequence is that of a scanning oligonucleotide useful in examples  
CC of the invention. Note: The present sequence did not form part of the  
CC printed specification, but is based on sequence information supplied to  
CC Derwent by the European Patent Office  
XX  
SQ Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 338 CCAGGCGCGGCT 349  
Db |||||  
12 CCAGGCGCGGCT 1  
  
RESULT 930  
ACF63330  
ID ACF63330 standard; DNA; 17 BP.  
XX AC ACF63330;  
XX 09-OCT-2003 (first entry)  
DT Human acetyl-CoA carboxylase antisense oligonucleotide SEQ ID NO:52.  
DE Human; pharmacological; hypotensive; antilipemic; vasotropic; laxative;  
KW dermatological; antidepressant; tranquiliser; antiinflammatory; eczema;  
KW antitumor; antimigraine; neuroprotective; antiparkinsonian; analgesic;  
KW gynaecological; virucide; vulnary; antiarthritic; antipsoriatic; cold;  
KW antimicrobial; cytostatic; litholytic; pathological disorder; depression;  
KW abnormal appetite; hypertension; hypercholesterolaemia; hyperlipidaemia;  
KW erectile dysfunction; anxiety; stress; inflammatory bowel syndrome;  
KW ulcerative colitis; Crohn's disease; renal stone; gall stone; migraine;  
KW constipation; headache; seizure; multiple sclerosis; polymyositis;  
KW fibromyalgia; Parkinson's disease; amyotrophic lateral sclerosis; trauma;  
KW chronic pain; pre-menstrual syndrome; sinusitis; carpal tunnel syndrome;  
KW inflammation; heart burn; infection; arthritis; psoriasis; prostatitis;  
KW skin disorder; antisense oligonucleotide; ss.  
XX Homo sapiens.  
OS Synthetic.  
XX WO2003006478-A1.  
PN 23-JAN-2003.  
PD 10-JUL-2002; 2002WO-US021664.  
PR 10-JUL-2001; 2001US-0303820P.  
PR (OLIG-) OLIGOS ETC INC.  
PA Dale RMK, Arrow A, Thompson T;  
PI WPI; 2003-221709/21.  
DR Composition with a modified oligonucleotide useful for treating a patient  
XX with a pathological disorder such as abnormal appetite, hypertension,  
XX eczema, anxiety, stress, and cancer.  
PT

XX New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX Disclosure; Page 654; 720pp; French.  
XX  
XX The invention relates to a novel isolated 17 mer nucleic acid sequence,  
CC given in the specification, a sequence containing at least 15 consecutive  
CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
CC hybridizes to them under highly stringent conditions, or the complement  
CC of any of them, or the corresponding RNA. The novel isolated nucleic  
CC acids of the invention are useful as probes and primers for detecting,  
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
CC component of a gene chip, in vitro as (anti)sense reagents, and for  
CC production of recombinant polypeptides. Any of the nucleic acids,  
CC polypeptides, vectors containing the nucleic acids, cells containing the  
CC vector or antibodies directed against the polypeptides are useful for  
CC preparation of pharmaceuticals for prevention and/or treatment of viral  
CC diseases that are characterised by development of tumours or cell  
CC degeneration, specifically cancer but also Alzheimer's disease and  
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
CC patient samples is useful for diagnosis and/or prognosis of these  
CC diseases. The polypeptides can also be used to generate antibodies, and  
CC both the polypeptide and antibodies are useful as components of protein  
CC chips. The nucleic acid sequences of the invention can be used in gene  
CC therapy. This polynucleotide sequence represents a tumour suppression  
CC related human fukutin oligonucleotide of the invention  
XX Sequence 17 BP; 6 A; 7 C; 2 G; 2 T; 0 U; 0 Other;  
SQ  
Query Match 2.8%; Score 12; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 47 CCACCACTCAGA 58  
DB 5 CCACCACTCAGA 16  
  
RESULT 932  
ACA07722/C  
ID ACA07722 standard; RNA; 17 BP.  
XX  
XX ACA07722;  
AC  
AC  
DT 03-JUN-2003 (first entry)  
DE NFKB sub-unit modulating zinzyme substrate #121.  
XX  
XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
KW G-cleaver; amberyze; cancer; REL-A activity; breast cancer; human;  
KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
KW gencitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
XX Homo sapiens.  
OS  
XX  
XX US2002177568-A1.  
XX  
XX 28-NOV-2002.  
XX  
XX 23-MAY-2001; 2001US-00864785.  
XX  
XX

XX Claim 17; Page 9; 173pp; English.  
PS  
XX The present invention describes a composition (I) suitable for  
CC administration in a mammal, which comprises a modified oligonucleotide  
CC (II) of 7-15 nucleotides containing 7 or more contiguous ribose groups  
CC linked by achiral 5'-3' internucleoside phosphate linkages, where the  
CC modified oligonucleotide is complementary to a region of a gene  
CC associated with a pathological disorder. Also described: (1) a  
CC nutritional supplement comprising (II); and (2) a cosmetic composition  
CC comprising (II), where the modified oligonucleotide is complementary to a  
CC region of a gene associated with a skin disorder. (I) and (II) can have  
CC hypotensive, antilipemic, vasotropic, dermatological, antidepressant,  
CC tranquiliser, antinflammatory, antitumor, laxative, antimigraine,  
CC neuroprotective, antiparkinsonian, analgesic, gynaecological, virucide,  
CC vulnery, antiarthritic, antiproliferative, antimicrobial, cytostatic and  
CC litholytic activities. (I) can be used for treating a patient with a  
CC pathological disorder selected from abnormal appetite, hypertension,  
CC hypercholesterolaemia, hyperlipidaemia, erectile dysfunction, eczema,  
CC depression, anxiety, stress, inflammatory bowel syndrome, ulcerative  
CC colitis, Crohn's disease, renal stones, gall stones, constipation, colds,  
CC migraine headache, seizure, multiple sclerosis, polymyositis, sinusitis,  
CC fibromyalgia, Parkinson's disease, amyotrophic lateral sclerosis (ALS),  
CC chronic pain, pre-menstrual syndrome, trauma, carpal tunnel syndrome,  
CC chronic fatigue syndrome, rosacea, arthritis, psoriasis, prostatitis,  
CC inflammation, heart burn, infection, poison ivy, colon cancer, malignant  
CC melanoma, and malignant nasal polyps. The nutritional supplement is  
CC useful for supplementing the diet of an individual, and the cosmetic  
CC composition is useful for improving the appearance of the skin in an  
CC individual with a skin disorder. ACP63279 to ACP63410 represent  
CC nucleotide sequence given in the exemplification of the present invention  
XX  
XX Sequence 17 BP; 2 A; 4 C; 9 G; 2 T; 0 U; 0 Other;  
SQ  
Query Match 2.8%; Score 12; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 146 GGTGAGGCCGG 157  
DB 4 GGTGAGGCCGG 15  
  
RESULT 931  
ABT39673  
ID ABT39673 standard; DNA; 17 BP.  
XX  
XX ABT39673;  
AC  
AC  
DT 12-JUN-2003 (first entry)  
DE Tumour suppression related human fukutin oligo SEQ ID No 5310.  
XX  
XX Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
KW schizophrenia; protein chip; gene therapy; tumour suppression;  
KW human fukutin; ds.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO2003025175-A2.  
FN  
XX 27-MAR-2003.  
PD  
XX  
XX 17-SEP-2002; 2002WO-IB004208.  
PF  
XX  
XX 17-SEP-2001; 2001FR-00011978.  
PR  
XX  
XX (MOLE-) MOLECULAR ENGINES LAB.  
PA  
XX  
XX Telerman A, Amson R, Tuijnder M;  
PI  
XX  
XX WPI; 2003-313353/30.  
DR

07-DEC-1992; 92US-00987132.  
18-MAY-1994; 94US-00245466.  
15-AUG-1994; 94US-00291932.  
23-DEC-1996; 96US-00777916.  
(STIN/) STINCHCOMB D T.  
(MCSW/) MCSWIGGEN J.  
(DRAP/) DRAPER K G.  
Stinchcomb DT, Mcswiggen J, Draper KG;  
WPI; 2003-340953/32.  
Novel enzymatic nucleic acid molecules which down regulates expression of  
treating cancer, inflammatory disorders and autoimmune diseases.  
Claim 3; Page 39; 72pp; English.  
The invention describes an enzymatic nucleic acid molecule (I) which down  
regulates expression of a sequence encoding a subunit of nuclear factor  
kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
configuration. The enzymatic nucleic acid molecule is adapted to treat  
cancer and is useful for down-regulating REL-A activity in a cell, for  
treating a patient having a condition associated with the level of REL-A.  
(I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
antisense nucleic acid molecules are useful for treating breast, lung,  
prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
multidrug resistant cancer. The method involves use of other drug  
therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,  
gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
acid molecules are also useful for treating inflammatory disease such as  
rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
rejection, gene therapy applications, ischaemia/reperfusion injury  
(central nervous system (CNS) and myocardial), glomerulonephritis,  
sepsis, allergic airway inflammation, inflammatory bowel disease or  
infection. This sequence represents the substrate of a novel enzymatic  
nucleic acid molecule  
Sequence 17 BP; 2 A; 11 C; 3 G; 0 T; 1 U; 0 Other;  
Query Match 2.8%; Score 12; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 146 GGTGGAGCGCGG 157  
DB 17 GGTGGAGCGCGG 6  
RESULT 933  
ACA07649  
ID ACA07649 standard; RNA; 17 BP.  
AC ACA07649;  
XX  
XX 03-JUN-2003 (first entry)  
XX  
XX NFkB sub-unit modulating zinzyme substrate #48.  
XX  
XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inozyme; zinzyme;  
XX G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
XX lung cancer; prostate cancer; colorectal cancer; brain cancer;  
XX oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
XX cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
XX lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
XX chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
XX cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;

KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
XX  
XX Homo sapiens.  
XX  
XX US2002177568-A1.  
XX  
XX 28-NOV-2002.  
XX  
XX 23-MAY-2001; 2001US-00864785.  
XX  
XX 07-DEC-1992; 92US-00987132.  
XX 18-MAY-1994; 94US-00245466.  
XX 15-AUG-1994; 94US-00291932.  
XX 23-DEC-1996; 96US-00777916.  
XX  
XX (STIN/) STINCHCOMB D T.  
XX (MCSW/) MCSWIGGEN J.  
XX (DRAP/) DRAPER K G.  
XX  
XX Stinchcomb DT, Mcswiggen J, Draper KG;  
XX  
XX WPI; 2003-340953/32.  
XX  
XX Novel enzymatic nucleic acid molecules which down regulates expression of  
XX a sequence encoding a subunit of nuclear factor kappa B useful for  
XX treating cancer, inflammatory disorders and autoimmune diseases.  
XX  
XX Claim 3; Page 38; 72pp; English.  
XX  
XX The invention describes an enzymatic nucleic acid molecule (I) which down  
XX regulates expression of a sequence encoding a subunit of nuclear factor  
XX kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
XX configuration. The enzymatic nucleic acid molecule is adapted to treat  
XX cancer and is useful for down-regulating REL-A activity in a cell, for  
XX treating a patient having a condition associated with the level of REL-A.  
XX (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
XX the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
XX antisense nucleic acid molecules are useful for treating breast, lung,  
XX prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
XX cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
XX multidrug resistant cancer. The method involves use of other drug  
XX therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
XX chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
XX cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,  
XX gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
XX acid molecules are also useful for treating inflammatory disease such as  
XX rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
XX obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
XX rejection, gene therapy applications, ischaemia/reperfusion injury  
XX (central nervous system (CNS) and myocardial), glomerulonephritis,  
XX sepsis, allergic airway inflammation, inflammatory bowel disease or  
XX infection. This sequence represents the substrate of a novel enzymatic  
XX nucleic acid molecule  
XX  
XX Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;  
XX  
XX Query Match 2.8%; Score 12; DB 1; Length 17;  
XX Best Local Similarity 91.7%; Pred. No. 4.6e+02;  
XX Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 268 ACCTGGAGCAGG 279  
DB 2 ACCUGGAGCAGG 13  
RESULT 934  
ACC64123/C  
ID ACC64123 standard; DNA; 17 BP.  
XX

AC ACC64123;  
 DT 01-JUL-2003 (first entry)  
 DE Murine oligonucleotide associated with tumour suppression, SEQ ID 1370.  
 KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;  
 KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;  
 KW schizophrenia; ss.  
 XX  
 OS Mus musculus.  
 XX  
 PN WO2003025176-A2.  
 XX  
 PD 27-MAR-2003.  
 XX  
 XX 17-SEP-2002; 2002WO-IB004210.  
 PF  
 PR 17-SEP-2001; 2001FR-00011979.  
 XX  
 PA (MOLE-) MOLECULAR ENGINES LAB.  
 XX  
 PI Teلمان A, Anson R, Tuijnder M;  
 XX  
 XX WPI; 2003-333167/31.  
 DR  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 XX with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 PT  
 XX Disclosure; Page 191; 739pp; French.  
 PS  
 XX The present invention relates to murine oligonucleotides (ACC62754-  
 CC ACC68806), which are associated with tumour suppression, tumour  
 CC reversion, apoptosis and virus resistance. The oligonucleotides are  
 CC useful as (1) as probes and primers for detecting, identifying,  
 CC quantifying and/or amplifying nucleic acid, e.g. as one component of a  
 CC gene chip; in vitro as (antisense reagents; and (2) for production of  
 CC recombinant polypeptides. The oligonucleotides are useful for preparation  
 CC of pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development of tumours or cell degeneration,  
 CC specifically cancer but also Alzheimer's disease and schizophrenia  
 XX  
 XX Sequence 17 BP; 6 A; 1 C; 7 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.8%; Score 12; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 366 CTCACCTTCCTG 377  
 Db 15 CTCACCTTCCTG 4  
 RESULT 935  
 ID AAQ34452 standard; DNA; 18 BP.  
 XX  
 AC AAQ34452;  
 XX  
 DT 17-DEC-2001 (revised)  
 DT 12-MAY-1993 (first entry)  
 XX  
 DE DQAI probe AG1, for alleles 0101, 0102 and 0103.  
 XX  
 XX Amplification; conformation polymorphism; SSCP; DQ-alpha; DQ-beta;  
 KW cystic fibrosis; neurofibromatosis; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN USN7751892-N.  
 XX

PD 01-DEC-1992.  
 XX  
 PF 29-AUG-1991; 91US-00751892.  
 XX  
 PR 29-AUG-1991; 91US-00751892.  
 XX  
 PA (USSH) US DEPT HEALTH & HUMAN SERVICE.  
 XX  
 PI Mann D, Dean M, Carrington M, White MB;  
 XX  
 XX WPI; 1993-017809/02.  
 DR  
 XX Distinguishing multiple alleles and identifying new alleles - by single-  
 PT strand conformation polymorphism technique using specific gel  
 PT electrophoresis conditions.  
 XX  
 PS Disclosure; Page 19; 36pp; English.  
 XX  
 CC The oligomer AG1 represents a probe for DQA1 alleles 0101, 0102 and 0103  
 CC and is used to distinguish multiple alleles of a gene of the immunoglobulin  
 CC supergene family. The DNA encoding the gene of interest in a sample is  
 CC amplified and then denatured. The amplified DNA is then separated on a  
 CC non-denaturing polyacrylamide gel consisting of 5 percent bis-acrylamide  
 CC with 0-10 percent glycerol, and the presence or absence of DNA bands,  
 CC showing hybridisation is detected. Before amplification of the gene, the  
 CC alleles may be divided into subsets by oligonucleotide hybridisation.  
 CC Using single stranded conformation polymorphism (SSCP) multiple alleles  
 CC in complex genetic systems can be distinguished e.g. DQ-alpha and DQ-beta  
 CC and new alleles identified. The method may be used in studying genetic  
 CC associations with disease, in forensic analyses and typing tissues for  
 CC transplantation. The SSCP method has been used for detection of mutant  
 CC alleles which correlate with the presence of disorders such as cystic  
 CC fibrosis and neurofibromatosis. See also AAQ34443-73. (Note: Revised  
 CC entry submitted to correct the patent number format of US Government-  
 CC owned NRI applications to prevent clashes with ongoing US granted patent  
 CC numbers. For further information please visit the Derwent web site at  
 CC www.derwent.com/dwpi/updates/ntis\_us.html.)  
 XX  
 XX Sequence 18 BP; 1 A; 5 C; 9 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.8%; Score 12; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 139 GCCTGCGCGTGG 150  
 Db 1 GCCTGCGCGTGG 12  
 RESULT 936  
 ID AAX36716 standard; DNA; 18 BP.  
 XX  
 AC AAX36716;  
 XX  
 DT 14-JUL-1999 (first entry)  
 XX  
 DE PCR primer for Human phosphodiesterase, PDE8, coding sequence.  
 XX  
 KW Phosphodiesterase 8; PDE8; human; cyclic nucleotide pathway; therapy;  
 KW intracellular cyclic nucleotide level modulation; cAMP; cGMP; PCR primer;  
 KW ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9919495-A1.  
 XX  
 PD 22-APR-1999.  
 XX  
 PF 16-OCT-1998; 98WO-US021956.  
 XX  
 PR 16-OCT-1997; 97US-00951648.



XX PA (ICOS-) ICOS CORP.  
 XX PI Loughney K;  
 XX PS WPI; 1999-277645/23.  
 XX DR New isolated phosphodiesterase genes and polypeptides for identifying  
 XX PT specific binding partners.  
 XX PS Example 3; Page 14; 80pp; English.  
 XX XX This sequence is a PCR primer for DNA encoding the human  
 XX CC phosphodiesterase 8 (PDE8) of the invention. The phosphodiesterase genes  
 XX CC and polypeptides are used to develop products for treating conditions in  
 XX CC which cyclic nucleotide pathways are aberrant and for modulation of  
 XX CC intracellular cyclic nucleotide levels. The PDE8 polypeptides exhibit  
 XX CC high affinity for hydrolysis of both cAMP and cGMP but relatively low  
 XX CC sensitivity to enzyme inhibitors specific for other PDE families. The  
 XX CC PDE8A polypeptides and polynucleotides can be used for identifying their  
 XX CC specific binding partners. The products can provide approaches for  
 XX CC treating conditions in which cyclic nucleotide pathways are aberrant as  
 XX CC well as conditions in which modulation of intracellular cAMP and/or cGMP  
 XX CC levels in certain cell types is desirable  
 XX SQ Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 62 GTCTCTGCACTA 73  
 DB 3 GTCTCTGCACTA 14  
 RESULT 937  
 AAAS58509/c  
 ID AAAS58509 standard; DNA; 18 BP.  
 XX AC AAAS58509;  
 XX DT 20-OCT-2000 (first entry)  
 XX DE PCR primer used to amplify bleomycin (BLM) gene cluster ORP25.  
 XX KW BLM gene cluster; bleomycin gene cluster; polyketide metabolite;  
 XX KW bleomycin; bleomycin analogue; holo-carrier protein; thiazolidine;  
 XX KW thiazoline; bithiazoline; microbial metabolite; sugar; PCR primer; ss.  
 XX OS Streptomyces verticillus.  
 XX PA WO200040704-A1.  
 XX PI 13-JUL-2000.  
 XX PF 06-JAN-2000; 2000WO-US000445.  
 XX PR 06-JAN-1999; 99US-0115435P.  
 XX PR 05-FEB-1999; 99US-0118848P.  
 XX PR 05-JAN-2000; 2000US-00477962.  
 XX XX (REGC ) UNIV CALIFORNIA.  
 XX PI Shen B, Du L, Sanchez C, Chen M, Edwards DJ;  
 XX XX WPI; 2000-465974/40.  
 XX DR New bleomycin gene cluster components useful for peptide and/or  
 XX PT polyketide metabolites, especially bleomycin, production and for  
 XX PT chemically modifying biological molecules.  
 XX XX Disclosure; Page 22; 162pp; English.

XX CC PCR primers AAAS8474-A58541 were used to amplify open reading frames  
 CC (ORFs) 8 to 41 of the BLM (bleomycin) gene cluster. The proteins encoded  
 CC by the gene cluster are useful for producing peptides and/or polyketide  
 CC metabolites, especially bleomycin or bleomycin analogues. They are also  
 CC useful for chemically modifying biological molecules to produce branched  
 CC methyl groups, and for coupling amino acids and fatty acids. They may be  
 CC reacted with an apo-carrier protein and coenzyme A to produce a holo-  
 CC carrier protein. The BLM gene cluster or catalytic domains can be used  
 CC individually or collectively to produce thiazolidine, thiazoline,  
 CC bithiazoline and bithiazoline-containing microbial metabolites. The BLM  
 CC gene cluster may also be used to produce sugars  
 XX SQ Sequence 18 BP; 1 A; 8 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 326 GGCGGGGACGA 337  
 DB 15 GGCGGGGACGA 4  
 RESULT 938  
 AAAS03269  
 ID AAAS03269 standard; DNA; 18 BP.  
 XX AC AAAS03269;  
 XX DT 07-SEP-2001 (first entry)  
 XX XX Mouse mRPL19 Taqman probe.  
 XX DE Mouse; type-I cytokine receptor; TCCR; T-cell differentiation; Th1; Th2;  
 XX KW agonist; antagonist; autoimmune inflammatory disease;  
 XX KW allograft rejection; multiple sclerosis; inflammatory bowel disease;  
 XX KW insulin-dependent diabetes mellitus; infectious disease;  
 XX KW human immunodeficiency virus; allergic disorder; asthma;  
 XX KW allergic rhinitis; HIV; probe; mRPL19; ss.  
 XX OS Mus musculus.  
 XX PN WO200129070-A2.  
 XX XX 26-APR-2001.  
 XX PD 18-OCT-2000; 2000WO-US028827.  
 XX PF 20-OCT-1999; 99US-0160542P.  
 XX PR (GETH ) GENENTECH INC.  
 XX PA De Sauvage FJ, Grewal I, Gurney AL;  
 XX PI WPI; 2001-308474/32.  
 XX DR Modulating T-cell differentiation and cytokine release profiles into Th1  
 XX PT and Th2 subtypes, for treating immune-related diseases in mammals, by  
 XX PT administering modulator of type I cytokine receptor (TCCR).  
 XX XX Example 12; Fig 19; 126pp; English.  
 XX XX The sequence is a probe used in a Taqman real-time PCR experiment used to  
 CC demonstrate that mice deficient of type I cytokine receptor, mTCCR, are  
 CC impaired in their ability to mount a Th1 response. The invention relates  
 CC to methods of modulating the differentiation of T-cells into the Th2  
 CC subtype instead of the Th1 subtype, by administering a modulator of TCCR  
 CC (e.g. an antagonist) to enhance, stimulate or potentiate T-cell  
 CC differentiation, or using TCCR polypeptide or its agonists to prevent,  
 CC inhibit or attenuate T-cell differentiation. Th1 mediated disease in  
 CC mammal can be treated by administering a TCCR antagonist and Th2 diseases  
 CC by administering a TCCR agonist. Th1-mediated diseases include allograft

CC rejection and autoimmune inflammatory diseases, such as allergic  
CC encephalomyelitis, multiple sclerosis, insulin-dependent diabetes  
CC mellitus, autoimmune uveoretinitis, inflammatory bowel disease or  
CC autoimmune thyroid disease. Th2-mediated diseases include infectious  
CC diseases, such as Leishmania major, Mycobacterium leprae, Candida  
CC albicans, Toxoplasma gondii, respiratory syncytial virus and human  
CC immunodeficiency virus (HIV) and allergic disorders, such as asthma,  
CC allergic rhinitis, dermatitis and vernal conjunctivitis  
XX  
SQ Sequence 18 BP; 0 A; 7 C; 6 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 246 TTCCCGGCTCG 257  
Db 1 TTCCCGGCTCG 12  
  
RESULT 939  
AAC66689  
ID AAC66689 standard; DNA; 18 BP.  
XX  
AC AAC66689;  
XX  
DT 13-FEB-2001 (first entry)  
XX  
DE Human PDE8 PCR primer W48A9.  
XX  
KW Human; PDE8; phosphodiesterase 8; chromosome 6p26-27; PCR primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN US6133007-A.  
XX  
FD 17-OCT-2000.  
XX  
PF 16-OCT-1998; 98US-00174437.  
XX  
PR 16-OCT-1997; 97US-00951648.  
XX  
PA (ICOS-) ICOS CORP.  
XX  
PI Loughney K;  
XX  
WPI; 2001-006138/01.  
XX  
DR New phosphodiesterase 8A (PDE8A) polypeptides useful in the  
PT systematic analysis of the structure and function of PDE8, and for  
PT identifying molecules with which PDE8A will interact.  
XX  
PS Example 3; Col 10; 37pp; English.  
XX  
CC The present invention relates to human phosphodiesterase 8 (PDE8)  
CC (AAC63695 and AA28256). Phosphodiesterases hydrolyse 3', 5' cyclic  
CC nucleotides to their respective nucleoside 5' monophosphates. PDE8 may be  
CC used in the systematic analysis of the structure and function of PDE8,  
CC and for the identification of molecules with which PDE8 will interact.  
CC PDE8 coding sequence may be used in hybridisation assays to detect the  
CC capacity of cells to express PDE8, and as a basis for diagnostic methods  
CC useful for identifying a genetic alteration in a PDE8 locus that  
CC underlies a disease state or status. The human PDE8 gene has been  
CC localised to chromosome 6p26-27. The present sequence is a PCR primer  
CC used to isolate the coding sequence of human PDE8  
XX  
SQ Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 62 GTCTCTGCACTA 73

Db 3 GTCTCTGCACTA 14  
RESULT 940  
AAS07305  
ID AAS07305 standard; DNA; 18 BP.  
XX  
AC AAS07305;  
XX  
DT 12-SEP-2001 (first entry)  
XX  
DE CPS1/TES1 genomic DNA sequencing primer FP8.  
XX  
KW CPS1; peptide synthetase; peptide toxin; fungal pathogen;  
KW corn crop infection; ss; sequencing primer; FP8.  
XX  
OS Cochliobolus heterostrophus.  
XX  
PN WO200138489-A2.  
XX  
PD 31-MAY-2001.  
XX  
PF 22-NOV-2000; 2000WO-US032227.  
XX  
PR 23-NOV-1999; 99US-00448215.  
XX  
PA (CORR ) CORNELL RES FOUND INC.  
XX  
PI Yoder OC, Turgeon BC, Lu S;  
XX  
WPI; 2001-367672/38.  
XX  
DR New isolated nucleic acid molecule from a plant pathogen useful in  
PT preventing plant pathogenic infections.  
XX  
PS Example 1; Page 54; 132pp; English.  
XX  
CC The sequence represents a sequencing primer used to sequence a genomic  
CC clone from Cochliobolus heterostrophus which contains the CPS1 and TES1  
CC peptide synthetase genes. CPS1 is an enzyme thought to be involved in the  
CC production of peptide toxins, which are involved in the pathogenic  
CC infection of corn crops. The nucleic acids and proteins can be used as  
CC targets for anti-fungal compounds to prevent fungal corn infection and  
CC the nucleic acids can be used in gene therapy to alter the biosynthetic  
CC pathway for the peptide toxins to lower the pathogenicity of the fungi  
XX  
SQ Sequence 18 BP; 4 A; 4 C; 5 G; 5 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 261 ACGGTGACCTG 272  
Db 1 ACGGTGACCTG 12  
  
RESULT 941  
ABL44735/c  
ID ABL44735 standard; DNA; 18 BP.  
XX  
AC ABL44735;  
XX  
DT 11-APR-2002 (first entry)  
XX  
DE Human chromosome 1p36-35 PCR primer SEQ ID NO:1779.  
XX  
KW Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;  
KW PCR primer; ss.  
XX  
OS Homo sapiens.  
XX

PN JP2001321190-A.  
XX 20-NOV-2001.  
PD 12-MAR-2001; 2001JP-00068285.  
XX 10-MAR-2000; 2000JP-00066716.  
XX (RIKA ) RIKAGAKU KENKYUSHO.  
PA (GENO-) GENOTEX YG.  
XX WPI; 2002-144136/19.  
DR Arraying genome clones.  
XX Claim 4; Page 39; 528pp; Japanese.  
XX The present invention describes a method of arraying genome clones. The  
CC method comprises: (a) clones of the genomic libraries contained in  
CC multiwell plates numbered for discrimination are mixed in each of the  
CC multiwell plates; (b) a primer designed based on the chromosome marker  
CC sequence is added to the mixture to carry out an amplification reaction;  
CC (c) a signal corresponding to the marker is detected from the resultant  
CC amplified product to specify the discrimination Nos. of the multiwell  
CC plates containing the clones having said marker sequence; (d) the order  
CC of the markers is changed so that the same discrimination Nos. succeed to  
CC the maximum in the specified discrimination Nos. to array the multiwell  
CC plates; (e) the clones in the multiwell plates of the specified  
CC discrimination Nos. are mixed respectively in each wells of longitudinal  
CC and lateral directions; (f) the mixed clones are cultured and the  
CC resultant cultures are amplified by using the above primer; (g) signals  
CC are detected from the amplified products; (h) the clones in the multiwell  
CC plates are specified from the detected result; and (i) the clones are  
CC reconstituted as the positions on the chromosome and arrayed. The  
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent  
CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634  
CC represent PCR primers for human chromosome 21q22.1, which are  
CC specifically claimed for use in the present invention  
XX Sequence 18 BP; 1 A; 4 C; 7 G; 6 T; 0 U; 0 Other;  
SQ Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 41 AGATGGCCACCA 52  
| | | | | | | | | |  
Db 17 AGATGGCCACCA 6  
RESULT 942  
ID ABS68429 standard; DNA; 18 BP.  
AC ABS68429;  
XX 19-NOV-2002 (first entry)  
DT Sequencing primer #20 for fungal DNA flanking REMI insertion site.  
DE Fungal pathogen, peptidase synthetase gene cluster; iron reductase;  
XX permease; major facilitator superfamily transporter; MFS transporter;  
KW anti-fungal agent; fungicide; pathogenic fungi; plant pathogen; CPS1;  
KW animal pathogen; fungal infection; wild grass; cereal; corn; mycoidase;  
KW leaf spot maize; immunocompromised vertebrate; pneumonia; arthritis;  
KW miliary disease; bone infection; joint infection; skin disease;  
KW aseptophagitis; vaginitis; onychomycosis; inflammation; urinary tract;  
KW kidney; liver; brain; gastrointestinal tract; lung; fungicidal;  
KW mycoidal; antiarthritic; antiinflammatory; dermatological; COA ligase;  
KW sequencing; primer; ss.  
XX Cochliobolus heterostrophus.  
OS Synthetic.

XX WO200242444-A2.  
XX 30-MAY-2002.  
PD 21-NOV-2001; 2001WO-US043381.  
XX 22-NOV-2000; 2000US-0252649P.  
PR 22-NOV-2000; 2000US-0252732P.  
XX (SYGN ) SYNGENTA PARTICIPATIONS AG.  
PA (CORR ) CORNELL RES FOUND INC.  
PA (YODE/) YODER O.  
PA (TURG/) TURGEON B G.  
PA (LUSS/) LU S.  
XX Yoder O, Turgeon BG, Lu S;  
PI WPI; 2002-666824/71.  
XX Nucleic acid molecules comprising fungal, e.g. Cochliobolus  
XX heterostrophus, genes from a peptidase synthetase gene cluster, useful for  
PT identifying anti-fungal agents for treating fungal infections such as  
PT pneumonia and arthritis.  
XX Example 1; Page 188; 315pp; English.  
PS The present invention relates to nucleic acid molecules comprising  
XX fungal, e.g. Cochliobolus heterostrophus, genes from a peptidase synthetase  
CC gene cluster, encoding e.g. an iron reductase and/or a permease, or a  
CC major facilitator superfamily (MFS) transporter protein. The  
CC polynucleotides and polypeptides are useful for identifying a novel  
CC fungicidal or mycoidal mode of action which permits rapid discovery of  
CC novel inhibitors of gene products that are useful as fungicides or  
CC mycoides. Anti-fungal agents identified using the polynucleotide and  
CC polypeptide sequences of the invention, and antisense DNA are useful as  
CC fungicides to suppress the growth of pathogenic fungi. The fungal  
CC pathogens include plant pathogens such as Septoria tritici, or Cochliobolus  
CC heterostrophus, or animal pathogens such as Candida albicans. The anti-  
CC fungal agents are useful for treating fungal infections in plants such as  
CC wild grasses or cereals (e.g. corn). For example they can be used to  
CC treat a disease called leaf spot maize caused by the pathogen C.  
CC heterostrophus. The anti-fungal agents are particularly useful for  
CC treating fungal infections of vertebrates, including immunocompromised  
CC vertebrates, for e.g. pneumonia, arthritis, miliary disease, bone and  
CC joint infection, skin disease, aseptophagitis, vaginitis, onychomycosis,  
CC and inflammation of the urinary tract, kidney, liver, brain,  
CC gastrointestinal tract and lung. ABS68410-ABS68443 represent sequencing  
CC primers used to sequence C. heterostrophus DNA flanking the REMI vector  
CC insertion site in the examples of the present invention  
XX Sequence 18 BP; 4 A; 4 C; 5 G; 5 T; 0 U; 0 Other;  
SQ Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 261 ACGGTGCACCTG 272  
| | | | | | | | | |  
Db 1 ACGGTGCACCTG 12  
RESULT 943  
ID ABA03691 standard; DNA; 18 BP.  
AC ABA03691;  
XX 18-FEB-2002 (first entry)  
DT HSV-tk gene-del PCR primer TrTkl.  
XX Cytostatic; antitumour; gene therapy; thymidine kinase; tk;  
KW

KW splice acceptor site; splice donor site; cell destruction; cytostatic;  
 KW cancer; herpes simplex virus; HSV; PCR primer; ss.  
 XX  
 OS Herpes simplex virus.  
 OS Synthetic.  
 XX  
 PN WO200179502-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 13-APR-2001; 2001WO-GB001640.  
 XX  
 PR 13-APR-2000; 2000GB-00009966.  
 XX  
 PA (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.  
 XX  
 PI Apperley JP, Garin MI;  
 XX  
 XX WPI; 2002-026030/03.  
 XX  
 PT Novel polynucleotide comprising a thymidine kinase coding region encoding  
 PT thymidine kinase, which does not contain a functional acceptor and/or  
 PT splice donor site, useful for gene therapy techniques.  
 XX  
 PS Example 3; Page 59; 103pp; English.  
 XX  
 CC The invention relates to a polynucleotide encoding a thymidine kinase  
 CC (tk), where the tk coding region does not contain a functional splice  
 CC acceptor and/or splice donor site. The polynucleotide and the protein  
 CC that it encodes are useful for destroying cells. The polynucleotide is  
 CC introduced into the cells, allowing the cells to express tk. The cells  
 CC are then contacted with a substantially non-toxic agent which is  
 CC converted by tk into a toxic agent. The non-toxic agent is ganciclovir,  
 CC acyclovir, trifluorothymidine, 1-(2-deoxy-2-fluoro-beta-D-arabino  
 CC furanosyl)-5-iodouracil, ara-A, ara 1, 1-beta-D arabinofuranosyl  
 CC thymine, 5-ethyl-2'-deoxyuridine, 5-iodo-5'-deoxyuridine,  
 CC idoxuridine, AZT, AIV, dideoxycytidine, Ara C or bromovinyl deoxyuridine  
 CC (BVDV). The polynucleotide is also useful for in vivo or ex vivo gene  
 CC therapy, and for manufacturing a medicament for destroying cells in a  
 CC patient. The polynucleotide is used to destroy cells that are, or have  
 CC the potential to become, cancer cells. The polynucleotide does not  
 CC contain a splice donor and/or splice acceptor site, and so there is no  
 CC undesirable splicing, which would lead to the production of an aberrant  
 CC form of the thymidine kinase gene. Thus a greater proportion of  
 CC transduced target cells correctly express tk. The present sequence is a  
 CC primer used to selectively amplify the deleted form of the herpes simplex  
 CC virus (HSV)-tk gene using a 5' primer, which spans the truncation point  
 XX  
 SQ Sequence 18 BP; 2 A; 7 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 335 CGACGAGGCGCG 346  
 DB 3 CGACGAGGCGCG 14  
 RESULT 944  
 ABZ24285/c  
 ID ABZ24285 standard; DNA; 18 BP.  
 XX  
 AC ABZ24285;  
 XX  
 DT 14-APR-2003 (first entry)  
 XX  
 DE Wheat TAAL cDNA RACE antisense primer OL2893.  
 XX  
 KW TAAL; wheat; anther; fatty acyl Co-A reductase; FAR; plant; dwarfism;  
 KW transgenic; lipid metabolism; plant growth; dermatological; octacosanol;  
 KW fatty alcohol; pharmaceutical; nutritional; dietary; PCR; primer; ss.  
 XX

OS Triticum aestivum.  
 XX  
 PN WO200299111-A2.  
 XX  
 PD 12-DEC-2002.  
 XX  
 PF 07-JUN-2002; 2002WO-CA000834.  
 XX  
 PR 07-JUN-2001; 2001US-0296159P.  
 XX  
 PA (CANA ) NAT RES COUNCIL CANADA.  
 XX  
 PI Selvaraj G, Wang A, Xia Q, Xie W;  
 XX  
 DR WPI; 2003-167346/16.  
 XX  
 PT New isolated and purified anther-specific TAAL nucleotide sequence,  
 PT useful for the production of transgenic plants with increased or altered  
 PT levels of fatty alcohols used as nutritional or pharmaceutical  
 PT compositions.  
 XX  
 PS Example; Page 46; 124pp; English.  
 XX  
 CC The invention relates to novel isolated and purified polynucleotides,  
 CC designated TAAL genes, endogenously expressed in wheat anthers and encode  
 CC polypeptides having fatty acyl Co-A reductase (FAR) activity. The TAAL  
 CC genes are used to produce transgenic plants where the sequence expressed  
 CC alters lipid metabolism of the transgenic plant. The octacosanol derived  
 CC from the transgenic plant is useful as a nutritional supplement. The  
 CC fatty alcohol derived from the transgenic plant is useful as a wax,  
 CC cleaning agent, cosmetic agent, dermatological agent, pharmaceutical  
 CC agent, nutritional agent or as a coating agent. A composition comprising  
 CC a fatty alcohol derived from the transgenic plant is useful in a method  
 CC of treating or preventing a medical condition. The methods are useful for  
 CC providing a dietary supplement, the production and isolation of fatty  
 CC alcohols, and for inducing dwarfism in plants. The methods and other  
 CC compositions of the present invention are useful for the production of  
 CC transgenic plants and other organisms that comprise increased or altered  
 CC levels of fatty alcohols used as nutritional or pharmaceutical  
 CC compositions. Sequences ABZ24280-86 represent primers used for isolating  
 CC the wheat TAAL genes  
 XX  
 SQ Sequence 18 BP; 4 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 12; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 337 ACCAGGCGCGCG 348  
 DB 15 ACCAGGCGCGCG 4  
 RESULT 945  
 ADC26391  
 ID ADC26391 standard; DNA; 18 BP.  
 XX  
 AC ADC26391;  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE NOV protein-related reverse PCR primer SEQ ID 216.  
 XX  
 KW NOV; cytostatic; metabolic disorder; immune; neurodegenerative;  
 KW circulatory; haemopoietic; wasting; cancer; gene therapy; vaccine;  
 KW transgenic; human; ss; PCR; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003004687-A2.  
 XX  
 PD 16-JAN-2003.  
 XX

AD59994 standard; DNA; 18 BP.

AA59994;

18-DEC-2003 (first entry)

Human FB66a DNA sequencing primer, W48A9.

Phosphodiesterase 8; PDE8; human; FB66a; primer; ss.

Homo sapiens.

US6566087-B1.

20-MAY-2003.

11-OCT-2000; 2000US-00686055.

16-OCT-1997; 9TUS-00951648.

16-OCT-1998; 98US-00174437.

(ICOS-) ICOS CORP.

Loughney K;

WPI; 2003-719642/58.

Identifying a specific binding partner of phosphodiesterase 8 (PDE8) useful for purifying PDE8 products in fluid samples comprises contacting PDE8 with a compound and detecting binding.

Example 3; Col 10; 37pp; English.

The invention relates to a method for identifying a specific binding partner of phosphodiesterase 8 (PDE8). The method is useful for identifying a specific binding partner of PDE8, which inhibits or enhances activity of PDE8. The binding partners of PDE8 are useful for purification, detection or quantification of PDE8 products in fluid and tissue samples using immunological procedures. Modulators of PDE8 activity are useful in treating a wide range of diseases and physiological conditions in which PDE8 activity is known to be involved. The present sequence is a primer used for sequencing human PDE8 A2 splice variant DNA (FB66a)

Sequence 18 BP; 4 A; 7 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0

62 GTCTCTGCACTA 73  
3 GTCTCTGCACTA 14

RESULT 947  
AAQ43232/c

AAQ43232 standard; DNA; 15 BP.

AAQ43232;

25-MAR-2003 (revised)  
13-OCT-1993 (first entry)

B-B10 V region primer Vxfor.

Complementarity-determining region; CDR; humanised; antibody; hIL2R; human; interleukin; IL-2; receptor; murine; anti-human; Ab; T-cell; monoclonal antibody; B-B10; mixed lymphocyte reaction; variable; V; region; PCR; framework; plasmid; heavy; H; light; L; amplify; primer; polymerase chain reaction; ss.

Synthetic.

PF 03-JUL-2002; 2002WO-US021361.

05-JUL-2001; 2001US-0303046P.

09-JUL-2001; 2001US-0303828P.

09-JUL-2001; 2001US-0304016P.

11-JUL-2001; 2001US-0304502P.

13-JUL-2001; 2001US-0305262P.

16-JUL-2001; 2001US-0305673P.

17-JUL-2001; 2001US-0306085P.

24-JUL-2001; 2001US-0307536P.

27-JUL-2001; 2001US-0308228P.

30-JUL-2001; 2001US-0308877P.

01-AUG-2001; 2001US-0309255P.

17-AUG-2001; 2001US-0313328P.

12-SEP-2001; 2001US-0318711P.

19-SEP-2001; 2001US-0323380P.

21-SEP-2001; 2001US-0323969P.

04-JAN-2002; 2002US-0345038P.

04-JAN-2002; 2002US-0345038P.

28-FEB-2002; 2002US-0361172P.

01-MAR-2002; 2002US-0360814P.

01-MAR-2002; 2002US-0360830P.

01-MAR-2002; 2002US-0361133P.

01-MAR-2002; 2002US-0361147P.

05-MAR-2002; 2002US-0361677P.

02-APR-2002; 2002US-0363637P.

12-APR-2002; 2002US-0372326P.

16-APR-2002; 2002US-0372990P.

19-APR-2002; 2002US-0373881P.

19-APR-2002; 2002US-0373921P.

02-JUL-2002; 2002US-00186186.

(CURA-) CURAGEN CORP.

Anderson DW, Berghs C, Boldog FL, Burgess CB, Casman SJ, Catterton E, Edinger S, Eissen AJ, Ellerman K, Gerlach V, Gorman L; Guo X, Jeffers M, Kekuda R, Li L, Malyanar UM, Miller CE; Padigaru M, Patkrajagan M, Pena CE, Rastelli L, Shenoy S; Shinkens RA, Spaderna SK, Spytke KA, Stone DJ, Taupier RJ; Vernet CM, Voss EZ, Zhong M;

WPI; 2003-221607/21.

New isolated NOVX polypeptide, useful for determining the presence of, or predisposition to a disease associated with altered levels of expression of the polypeptide, and for treating or preventing cancer.

Example C; SEQ ID NO 216; 478pp; English.

The invention relates to a novel isolated NOV polypeptide. The polypeptide of the invention demonstrates cytostatic activity and may be used for determining the presence of, or predisposition to a disease associated with altered levels of expression of the polypeptide, including metabolic disorders, immune disorders, neurodegenerative disorders, circulatory diseases, haemopoietic disorders, wasting diseases and cancer. The polypeptide may also be utilised during gene therapy procedures, vaccine development and transgenic animal production. The current sequence is that of the PCR primer of the invention which was used to analyse human NOV DNA.

Sequence 18 BP; 4 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 12; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5.1e+02;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

344 CCGGCTGCTCTA 355  
2 CCGGCTGCTCTA 13

RESULT 946  
AD59994

XX PN W09311238-A1.  
XX PD 10-JUN-1993.  
XX PF 03-DEC-1992; 92WO-JP001583.  
XX PR 06-DEC-1991; 91JP-00323319.  
XX PA (SUMU) SUMITOMO PHARM CO LTD.  
XX PA (BIOT) BIOTEST PHARMA GMBH.  
XX PA (INNO-) INNOTHERAPIE LAB.  
XX PI Nakatani T, Gomi H, Wijdenes J, Noguchi H;  
XX DR WPI; 1993-197057/24.  
XX PT Humanised antibody comprising - CDR region of mouse MAB B-B10 specific  
XX PT for IL-2 receptor useful for treating carcinoma expressing IL-2 receptor.  
XX PS Disclosure; Page 45; 62pp; English.  
XX CC The sequences given in AAQ43226-32 are primers which were used in the  
XX CC cloning of DNA encoding the variable (V) regions of the murine anti-  
XX CC human IL-2 receptor monoclonal Ab (MAB) B-B10. This MAB was used in the  
XX CC construction of a humanised antibody (Ab) which binds specifically to  
XX CC human interleukin (IL)-2 receptor (hIL2R). The complementarity-  
XX CC determining regions (CDRs) for the hIL2R MAB were derived from B-B10 (see  
XX CC also AAQ37599-04). The hIL2R MAB is antagonistic to the binding of IL-2  
XX CC to the IL-2 receptor on human T-cells. It also inhibits the human mixed  
XX CC lymphocyte reaction. The CDNA encoding the variable (V) region of the B-  
XX CC B10 Ab was cloned by PCR and sequenced (see also AAQ43233-36) A human Ab  
XX CC with high levels of amino acid sequence homology to the murine sequence  
XX CC was selected and the framework of this Ab was bound with the B-B10 V  
XX CC region CDR and a part of the framework to design several kinds of the  
XX CC humanised B-B10 V region. The DNA sequence coding this humanised B-B10  
XX CC was synthesised and a plasmid expressing humanised B-B10 was constructed.  
XX CC (Updated on 25-MAR-2003 to correct PN field.)  
XX SQ Sequence 15 BP; 1 A; 7 C; 3 G; 4 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 282 GGACCAAGCTGGTG 296  
DB 15 GGGACCAAGCTGGAG 1  
RESULT 948  
AAV48908/c  
XX AA AAV48908 standard; DNA; 15 BP.  
XX AC AAV48908;  
XX DT 15-OCT-1998 (first entry)  
XX DE c-fos gene antisense oligonucleotide c-fos-22.  
XX KW c-fos; antisense oligonucleotide; modulate; gene expression; ss.  
XX OS Synthetic.  
XX OS Homo sapiens.  
XX PN EP856579-A1.  
XX PD 05-AUG-1998.  
XX PF 31-JAN-1997; 97EP-00101531.  
XX PR 31-JAN-1997; 97EP-00101531.  
XX PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.  
XX PI Schlingensiepen K, Brysch W;  
XX DR WPI; 1998-400910/35.

PA XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.

XX PI Schlingensiepen K, Brysch W;

XX DR WPI; 1998-400910/35.

XX XX Preparation of antisense oligonucleotide(s) which lack long runs of  
XX PT consecutive guanosine or inosine - and have specific ratio of residues  
XX PT able to form two or three hydrogen bonds, have greater activity and  
XX PT reduced toxicity, used therapeutically or to modulate growth of cells in  
XX PT culture.  
XX PS Claim 10; Fig 7; 286pp; English.

XX XX AA48887-929 represent antisense oligonucleotides directed against the c-  
XX CC fos gene. Of these, only oligonucleotides AA48887-917 resulted in  
XX CC significant reduction in c-fos protein expression, while oligonucleotides  
XX CC AA48887-918-929 had little effect. The oligonucleotides exemplify the  
XX CC invention. The specification describes oligonucleotides that contain 8-30  
XX CC nucleotides, which contain at most 8 nucleotides that can each form three  
XX CC hydrogen bonds to cytosine; do not contain four consecutive nucleotides  
XX CC able to form three H-bonds each to four consecutive cytosines; do not  
XX CC contain two sequences of three consecutive nucleotides each able to form  
XX CC three H-bonds to three consecutive cytosines, and the ratio between  
XX CC residues able to form two H-bonds each (2R) or three such bonds (3R) is  
XX CC given by 2R/3R = 0.33-0.72. The oligonucleotides are used to modulate  
XX CC expression of genes, particularly the genes for p53, ErbB-2, junB, junD,  
XX CC TGF-beta 1 or beta 2 to control proliferation of primary cell cultures  
XX CC (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts  
XX CC and/or keratinocytes). The oligonucleotides can also be used to analyse  
XX CC function of proteins (by altering their expression or activity) and  
XX CC therapeutically, e.g. in cases of cancer or (targeting TGF) for  
XX CC stimulating the immune system  
XX XX Sequence 15 BP; 2 A; 4 C; 5 G; 4 T; 0 U; 0 Other;  
SQ Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 286 CCAGCTGCTGAAGG 300

DB 15 CCACCTGCTGAAGG 1

RESULT 949

AAV48892

ID AA48892 standard; DNA; 15 BP.

XX AC AAV48892;

XX DT 15-OCT-1998 (first entry)

XX DE c-fos gene antisense oligonucleotide c-fos-6.

XX KW c-fos; antisense oligonucleotide; modulate; gene expression; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN EP856579-A1.

XX PD 05-AUG-1998.

XX PF 31-JAN-1997; 97EP-00101531.

XX PR 31-JAN-1997; 97EP-00101531.

XX PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.

XX PI Schlingensiepen K, Brysch W;

XX DR WPI; 1998-400910/35.

XX Preparation of antisense oligonucleotide(s) which lack long runs of  
 PT consecutive guanosine or inosine - and have specific ratio of residues  
 PT able to form two or three hydrogen bonds, have greater activity and  
 PT reduced toxicity, used therapeutically or to modulate growth of cells in  
 PT culture.  
 XX Claim 10; Fig 7; 286pp; English.  
 XX AAV48887-929 represent antisense oligonucleotides directed against the c-  
 CC fos gene. Of these, only oligonucleotides AAV4887-917 resulted in  
 CC significant reduction in c-fos protein expression, while oligonucleotides  
 CC AAV48918-29 had little effect. The oligonucleotides exemplify the  
 CC invention. The specification describes oligonucleotides that contain 8-30  
 CC nucleotides, which contain at most 8 nucleotides that can each form three  
 CC hydrogen bonds to cytosine; do not contain four consecutive nucleotides  
 CC able to form three H-bonds each to four consecutive cytosines; do not  
 CC contain two sequences of three consecutive nucleotides each able to form  
 CC three H-bonds to three consecutive cytosines, and the ratio between  
 CC residues able to form two H-bonds each (2R) or three such bonds (3R) is  
 CC given by  $2R/3R = 0.33-0.72$ . The oligonucleotides are used to modulate  
 CC expression of genes, particularly the genes for p53, ErbB-2, junB, junD,  
 CC TGF-beta 1 or beta 2 to control proliferation of primary cell cultures  
 CC (e.g. bone marrow stem, liver or kidney cells, osteoclasts, osteoblasts  
 CC and/or keratinocytes). The oligonucleotides can also be used to analyse  
 CC function of proteins (by altering their expression or activity) and  
 CC therapeutically, e.g. in cases of cancer or (targeting TGF) for  
 CC stimulating the immune system  
 XX Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 286 CCAAGCTGCTGAAGG 300  
 Db 1 CCAAGCTGCTGAAGG 15

RESULT 950  
 AAV48699  
 ID AAV48699 standard; DNA; 15 BP.  
 AC AAV48699;  
 XX 15-OCT-1998 (first entry)  
 DT junB gene antisense oligonucleotide JunB-T-8.  
 DE junB; junD; antisense oligonucleotide; modulate; gene expression; ss.  
 KW Synthetic.  
 XX Homo sapiens.  
 XX EP856579-A1.  
 XX 05-AUG-1998.  
 XX 31-JAN-1997; 97EP-00101531.  
 XX 31-JAN-1997; 97EP-00101531.  
 XX (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.  
 XX Schlingensiepen K, Brysch W;  
 XX WPI; 1998-400910/35.

XX Preparation of antisense oligonucleotide(s) which lack long runs of  
 PT consecutive guanosine or inosine - and have specific ratio of residues  
 PT able to form two or three hydrogen bonds, have greater activity and  
 PT reduced toxicity, used therapeutically or to modulate growth of cells in  
 PT culture.

PT culture.  
 XX Example 3; Fig 5c; 286pp; English.  
 XX AAV4864-708 represent antisense oligonucleotides directed against the  
 CC junB and junD genes. Of these, only oligonucleotides AAV4865-614  
 CC resulted in effective downregulation of negative growth control by JunB  
 CC or JunD, while AAV48615-708 had little effect. The oligonucleotides  
 CC exemplify the invention. The specification describes oligonucleotides that  
 CC contain 8-30 nucleotides, which contain at most 8 nucleotides that  
 CC can each form three hydrogen bonds to cytosine; do not contain four  
 CC consecutive nucleotides able to form three H-bonds each to four  
 CC consecutive cytosines; do not contain two sequences of three consecutive  
 CC nucleotides each able to form three H-bonds to three consecutive  
 CC cytosines, and the ratio between residues able to form two H-bonds each  
 CC (2R) or three such bonds (3R) is given by  $2R/3R = 0.33-0.72$ . The  
 CC oligonucleotides are used to modulate expression of genes, particularly  
 CC the genes for p53, ErbB-2, junB, junD, TGF-beta 1 or beta 2 to control  
 CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or  
 CC kidney cells, osteoclasts, osteoblasts and/or keratinocytes). The  
 CC oligonucleotides can also be used to analyse function of proteins (by  
 CC altering their expression or activity) and therapeutically, e.g. in cases  
 CC of cancer or (targeting TGF) for stimulating the immune system  
 XX Sequence 15 BP; 2 A; 4 C; 7 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 147 GTGAGGCGGGCTTC 161  
 Db 1 GGGAGGCGGAGCTTC 15

RESULT 951  
 AAX31429  
 ID AAX31429 standard; DNA; 15 BP.  
 AC AAX31429;  
 XX 21-MAY-1999 (first entry)  
 DT Tag sequence of a transcript decreased in colorectal cancer.  
 DE Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;  
 XX diagnosis; prognosis; treatment; ss.  
 KW Homo sapiens.  
 XX WO9853319-A2.  
 XX 26-NOV-1998.  
 XX 20-MAY-1998; 98WO-US010277.  
 XX 21-MAY-1997; 97US-0047352P.  
 XX (UYJO) UNIV JOHNS HOPKINS.  
 XX Vogelstein B, Kinzler KW;  
 XX WPI; 1999-070161/06.  
 XX Use of isolated gene transcripts - useful for developing products for the  
 PT diagnosis, prognosis and treatment of cancers, particularly colon and  
 PT pancreatic cancer.  
 XX Claim 1; Page 50; 120pp; English.

XX AAX3047-31815 represent tag sequences of transcripts that are  
 CC differentially expressed in colorectal cancer, in pancreatic cancer, or  
 CC in both. The tag sequences can be used to identify genes by matching the

CC tag to a gen data base member, or by using the tag sequences as probes to  
 CC isolate unidentified genes from cDNA libraries. The tag sequences can  
 CC also be used in a method for diagnosing colon or pancreatic cancer in a  
 CC sample suspected of being neoplastic. The method comprises comparing the  
 CC level of at least one transcript in a first sample of a tissue to a  
 CC second sample, where the first sample is a colonic tissue suspected of  
 CC being neoplastic and the second sample is a normal human colonic tissue.  
 CC The transcript is identified by a tag selected from AAX30947-31815. The  
 CC methods of the invention can be used in the diagnosis, prognosis and  
 CC treatment of cancer

SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301  
 Db 1 CATGTTGGTGAAGGA 15

# RESULT 952

AAX31675  
 ID AAX31675 standard; DNA; 15 BP.

AC AAX31675;

XX 21-MAY-1999 (first entry)

DE Tag sequence of a transcript increased in pancreatic cancer.

KW Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;  
 KW diagnosis; prognosis; treatment; ss.

XX Homo sapiens.

XX WO9853319-A2.

XX 26-NOV-1998.

XX 20-MAY-1998; 98WO-US010277.

XX 21-MAY-1997; 97US-0047352P.

XX (UWJO ) UNIV JOHNS HOPKINS.

XX Vogelstein B, Kinzler KW;

XX WPI; 1999-070161/06.

XX Use of isolated gene transcripts - useful for developing products for the  
 XX diagnosis, prognosis and treatment of cancers, particularly colon and  
 XX pancreatic cancer.

XX Claim 13; Page 68; 120pp; English.

XX AAX30947-31815 represent tag sequences of transcripts that are  
 CC differentially expressed in colorectal cancer, in pancreatic cancer, or  
 CC in both. The tag sequences can be used to identify genes by matching the  
 CC tag to a gen data base member, or by using the tag sequences as probes to  
 CC isolate unidentified genes from cDNA libraries. The tag sequences can  
 CC also be used in a method for diagnosing colon or pancreatic cancer in a  
 CC sample suspected of being neoplastic. The method comprises comparing the  
 CC level of at least one transcript in a first sample of a tissue to a  
 CC second sample, where the first sample is a colonic tissue suspected of  
 CC being neoplastic and the second sample is a normal human colonic tissue.  
 CC The transcript is identified by a tag selected from AAX30947-31815. The  
 CC methods of the invention can be used in the diagnosis, prognosis and  
 CC treatment of cancer

XX Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301  
 Db 1 CATGTTGGTGAAGGA 15

# RESULT 953

AAX59553/C  
 ID AAX59553 standard; DNA; 15 BP.

XX AAX59553;

XX 21-JUL-1999 (first entry)

XX Intron 2/exon 3 junction of the mouse Pitx3 gene.

XX Pitx3; homeobox domain protein; lens development; lens disorder;  
 KW cataract; detection; ocular disease; ASMD; Peter's anomaly;  
 KW anterior segment mesenchymal dysgenesis; ss.

XX Mus sp.

XX WO9921996-A1.

XX 06-MAY-1999.

XX 26-OCT-1998; 98WO-US022689.

XX 24-OCT-1997; 97US-00957351.

XX (IOWA ) UNIV IOWA RES FOUND.

XX Semina EV, Murray JC;

XX WPI; 1999-312965/26.

XX Pitx3, homeobox protein, and related nucleic acid sequences.

XX Example 6; Page 103; 128pp; English.

XX AAX59550-53 represent intron/exon and exon/intron junctions of the mouse  
 CC Pitx3 gene. Pitx3 proteins are homeobox domain proteins, which are  
 CC involved in the development of the lens and contribute to diseases and  
 CC disorders of the lens, such as cataracts. The Pitx3 nucleic acids (e.g.  
 CC antisense sequences, ribozymes and triplex nucleic acids), probes derived  
 CC from them and polypeptides, are useful in claimed methods to detect an  
 CC ocular disease, especially of the lens, e.g. cataract formation. Specific  
 CC conditions that can be detected and treated are Anterior Segment  
 CC Mesenchymal Dysgenesis (ASMD) and Peter's anomaly

XX Sequence 15 BP; 3 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. NO. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 15 CTGCGGTTACCCGAG 29  
 Db 15 CTGCGGTTACCCGAG 1

# RESULT 954

AAC73381/C

ID AAC73381 standard; DNA; 15 BP.

XX AAC73381;

XX 02-FEB-2001 (first entry)

XX Forward primer #78 used in multiplexing PCR/SBE assay.



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XX KW Oligonucleotide array; genotyping; single base extension reaction; SBE;
XX KW PCR primer; polymorphic locus; single nucleotide polymorphism; ss.
XX OS Unidentified.
XX PN WO200058516-A2.
XX PD 05-OCT-2000.
XX PF 27-MAR-2000; 2000WO-US008069.
XX PR 26-MAR-1999; 99US-0126473P.
XX PR 23-JUN-1999; 99US-0140359P.
XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX PA (AFFY-) AFFYMETRIX INC.
XX PI Fan J, Hirschhorn JN, Huang X, Kaplan P, Lander ES, Lockhart DJ;
XX PI Ryder T, Sklar P;
XX DR WPI; 2000-656171/63.
XX PT Universal array of oligonucleotides tags attached to a solid substrate
XX PT along with locus-specific tagged oligonucleotides useful in genotyping
XX PT using single base extension reactions.
XX PS Example 7; Page 56; 70pp; English.
XX CC The present invention relates to an oligonucleotide array comprising
XX CC oligonucleotide tags fixed to a solid substrate. The oligonucleotide
XX CC array is useful for genotyping a nucleic acid sample at one or more loci
XX CC via single base extension (SBE) reactions. A pair of primers is used to
XX CC amplify a polymorphic locus in a sample e.g. a single nucleotide
XX CC polymorphism (SNP). The present sequence is, one of the primers used in
XX CC the method of the present invention to amplify a polymorphic sample. The
XX CC amplified nucleic acid product is then used as a template in a SBE
XX CC reaction with an extension primer. The SBE reaction products are used to
XX CC form the oligonucleotide array
XX SQ Sequence 15 BP; 4 A; 5 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 153 GCGGCTTCGACTGG 167
DB 15 GCGGCTTCCTCTGG 1

RESULT 955
AAF47147/C
ID AAF47147 standard; DNA; 15 BP.
XX AC AAF47147;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #567.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.

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XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wright CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.
XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS Example 7; Page 47; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antisense
XX CC oligonucleotides of the present invention (see AAF4151 and AAF41513-
XX CC F45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 2 A; 8 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 319 GCGTCTGCGCGCG 333
DB 15 GCGTCTGCGAGACGG 1

RESULT 956
AAF50769
ID AAF50769 standard; DNA; 15 BP.
XX AC AAF50769;
XX DT 30-MAR-2001 (first entry)
XX DE IGF-I oligonucleotide #1729.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.

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XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX PT WPI; 2001-041421/05.
XX PS
XX PS Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX PT UV (ultra-violet) treatment (optional) and an antiseptic nucleic acid that
XX PT inhibits or reduces growth factor mediated cell proliferation and/or
XX PT inflammation.
XX PS
XX PS Example 8; Page 72; 201pp; English.
XX CC The present invention relates to a method for ameliorating the effects of
XX CC skin disorders. The method comprises contacting the skin with an
XX CC antiseptic oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX CC inhibiting or reducing growth factor mediated cell proliferation,
XX CC inflammation and/or other disorders. The present sequence is an
XX CC oligonucleotide which can be used to design the antiseptic
XX CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX CC P45161). The method is useful for ameliorating the effects of psoriasis,
XX CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX CC hyperneovascular condition such as a neovascular condition of the retina,
XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
XX CC disease, kidney disease, hyperproliferation of the inside of blood
XX CC vessels or any other hyperplasia
XX CC
XX CC Sequence 15 BP; 2 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX SQ
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 3.8e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 147 GTGAGCGCGGCTTC 161
XX DB 1 GTGAGCGCGGCTTC 15
XX
XX RESULT 957
XX AAF47144/C
XX ID AAF47144 standard; DNA; 15 BP.
XX AC AAF47144;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #564.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.

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XX Wraight CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antiseptic nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7; Page 47; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antiseptic oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antiseptic
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX P45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
XX hyperneovascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
XX Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;
XX SQ
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 15;
XX Best Local Similarity 86.7%; Pred. No. 3.8e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 322 TGCTGGCGCGGACG 336
XX DB 15 TGCTGGCGCGGACG 1
XX
XX RESULT 958
XX AAF50342
XX ID AAF50342 standard; DNA; 15 BP.
XX AC AAF50342;
XX DT 30-MAR-2001 (first entry)
XX DE IGF-I oligonucleotide #1302.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
XX KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX KW hyperneovascular condition; hyperplasia; kidney disease;
XX KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX DR WPI; 2001-041421/05.

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XX XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenescence nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX XX
PS Example 8; Page 69; 201pp; English.
XX XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisenescence oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisenescence
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX XX
SQ Sequence 15 BP; 2 A; 6 C; 2 G; 5 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 404 CTTCTACGTGTCGA 418
DB 1 CTTCTACGTGTCGA 15

RESULT 959
AAF47290
ID AAF47290 standard; DNA; 15 BP.
XX XX
AC AAF47290;
XX XX
DT 30-MAR-2001 (first entry)
DE IGFBP3 oligonucleotide #710.
XX XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX XX
OS Homo sapiens.
XX XX
PN WO200078341-A1.
XX XX
PD 28-DEC-2000.
XX XX
PF 21-JUN-2000; 2000WO-AU000693.
XX XX
PI 21-JUN-1999; 99US-0140345P.
XX XX
PR (MURD-) MURDOCH CHILDRENS RES INST.
XX XX
PA Wright CJ, Werther GA, Edmondson SR;
XX XX
PI WPI; 2001-041421/05.
XX XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenescence nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or

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PT inflammation.
XX XX
PS Example 7; Page 48; 201pp; English.
XX XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisenescence oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisenescence
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX XX
SQ Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 171 TACTACGAGTCCAAAG 185
DB 1 TCCTCCGAGTCCAAAG 15

RESULT 960
AAF52600
ID AAF52600 standard; DNA; 15 BP.
XX XX
AC AAF52600;
XX XX
DT 30-MAR-2001 (first entry)
DE IGF-I oligonucleotide #3560.
XX XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX XX
OS Homo sapiens.
XX XX
PN WO200078341-A1.
XX XX
PD 28-DEC-2000.
XX XX
PF 21-JUN-2000; 2000WO-AU000693.
XX XX
PI 21-JUN-1999; 99US-0140345P.
XX XX
PR (MURD-) MURDOCH CHILDRENS RES INST.
XX XX
PA Wright CJ, Werther GA, Edmondson SR;
XX XX
PI WPI; 2001-041421/05.
XX XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisenescence nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX XX
PS Example 8; Page 84; 201pp; English.
XX XX

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CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX  
 SQ Sequence 15 BP; 0 A; 6 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 240 GGCTGCTTCCCGGC 254  
 |||||  
 Db 1 GGCTGCTCCCGTGC 15

RESULT 961  
 AAF47145/C  
 ID AAF47145 standard; DNA; 15 BP.

XX AC AAF47145;

XX DT 30-MAR-2001 (first entry)

XX DE IGFBP3 oligonucleotide #565.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU000693.

XX PR 21-JUN-1999; 99US-0140345P.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.

XX PI Wraight CJ, Werther GA, Edmondson SR;

XX DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.

XX PS Example 7; Page 47; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 XX

SQ Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 321 GTGCTGCGCGGAC 335  
 |||||  
 Db 15 GTGCTGAGACGGAC 1

RESULT 962

AAF45774

XX ID AAF45774 standard; DNA; 15 BP.

XX AC AAF45774;

XX DT 30-MAR-2001 (first entry)

XX DE IGFBP2 oligonucleotide #613.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU000693.

XX PR 21-JUN-1999; 99US-0140345P.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.

XX PI Wraight CJ, Werther GA, Edmondson SR;

XX DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.

XX PS Example 6; Page 38; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-

CC F45161). The method is useful for ameliorating the effects of psoriasis, CC  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis, CC  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a CC  
CC hyperneovascular condition such as a neovascular condition of the retina, CC  
CC brain or skin, growth factor-mediated malignancies, other sclerotic CC  
CC disease, kidney disease, hyperproliferation of the inside of blood CC  
CC vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. NO. 3.8e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 87 GTGGACATCACCACG 101  
Db 1 GTGGACAGCACCATG 15

RESULT 963  
AAF46991  
ID AAF46991 standard; DNA; 15 BP.  
XX  
AC AAF46991;  
XX  
DT 30-MAR-2001 (first entry)  
XX  
DE IGFBP3 oligonucleotide #411.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.

OS Homo sapiens.  
XX  
PN WO200078341-A1.  
XX  
PD 28-DEC-2000.  
XX  
PF 21-JUN-2000; 2000WO-AU000693.  
XX  
PR 21-JUN-1999; 99US-0140345P.  
XX  
PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX  
PI Wright CJ, Werther GA, Edmondson SR;  
XX  
DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
PT inhibits or reduces growth factor mediated cell proliferation and/or  
PT inflammation.

XX Example 7; Page 46; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,

CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 2 A; 6 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. NO. 3.8e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 108 CGCGACCGCAGCAAG 122  
Db 1 CGCGACCGCTGCAGG 15

RESULT 964  
AAF47146/C  
ID AAF47146 standard; DNA; 15 BP.  
XX  
AC AAF47146;  
XX  
DT 30-MAR-2001 (first entry)  
XX  
DE IGFBP3 oligonucleotide #566.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.

OS Homo sapiens.  
XX  
PN WO200078341-A1.  
XX  
PD 28-DEC-2000.  
XX  
PF 21-JUN-2000; 2000WO-AU000693.  
XX  
PR 21-JUN-1999; 99US-0140345P.  
XX  
PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX  
PI Wright CJ, Werther GA, Edmondson SR;  
XX  
DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
PT inhibits or reduces growth factor mediated cell proliferation and/or  
PT inflammation.

XX Example 7; Page 47; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
CC F45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia

SQ Sequence 15 BP; 2 A; 7 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 320 CGTGGTGGGGCGGA 334  
DB 15 CGTGGTGGAGACGA 1

RESULT 965  
AAF51317  
ID AAF51317 standard; DNA; 15 BP.  
XX  
AC AAF51317;  
XX  
DT 30-MAR-2001 (first entry)  
XX  
DE IGF-I oligonucleotide #2277.  
XX  
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP2; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.  
XX  
OS Homo sapiens.  
XX  
FN WO200078341-A1.  
XX  
PD 28-DEC-2000.  
XX  
PF 21-JUN-2000; 2000WO-AU000693.  
XX  
PR 21-JUN-1999; 99US-0140345P.  
XX  
PA (MURD-) MURDOCH CHILDRENS RES INST.  
XX  
PI Wright CJ, Werther GA, Edmondson SR;  
XX  
DR WPI; 2001-041421/05.  
XX  
PS Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
XX inhibits or reduces growth factor mediated cell proliferation and/or  
XX inflammation.  
XX  
PS Example 8; Page 75; 201pp; English.  
XX  
CC The present invention relates to a method for ameliorating the effects of  
XX skin disorders. The method comprises contacting the skin with an  
XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
XX inhibiting or reducing growth factor mediated cell proliferation,  
XX inflammation and/or other disorders. The present sequence is an  
XX oligonucleotide which can be used to design the antisense  
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-  
XX 45161). The method is useful for ameliorating the effects of psoriasis,  
XX ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
XX hyperneovascular condition such as a neovascular condition of the retina,  
XX brain or skin, growth factor-mediated malignancies, other sclerotic  
XX disease, kidney disease, hyperproliferation of the inside of blood  
XX vessels or any other hyperplasia  
XX  
SQ Sequence 15 BP; 5 A; 6 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
Best Local Similarity 86.7%; Pred. No. 3.8e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 86 AGTGGACATCACCAC 100  
DB 1 AGTGGCCACACACCAC 15

RESULT 966  
ABN87915/c  
ID ABN87915 standard; DNA; 15 BP.  
XX  
AC ABN87915;  
XX  
DT 12-AUG-2002 (first entry)  
XX  
DE Human GSR allele specific oligonucleotide primer SEQ ID NO:34.  
XX  
KW Human; glutathione reductase; GSR; enzyme; haemolytic anaemia; SNP;  
KW gene therapy; antianaemic; polymorphic; single nucleotide polymorphism;  
KW primer; ss.  
XX  
OS Homo sapiens.  
XX  
FN Key Location/Qualifiers  
FT misc\_feature 14  
FT /\*tag= a  
FT /note= "polymorphic base"  
XX  
PN WO200242320-A2.  
XX  
PD 30-MAY-2002.  
XX  
PF 13-NOV-2001; 2001WO-US046473.  
XX  
PR 10-NOV-2000; 2000US-0247202P.  
XX  
PA (GENA-) GENAISSANCE PHARM INC.  
XX  
PI Bieglecki KM, Sanchis A, Sausker EA, Sun X;  
XX WPI; 2002-471719/50.  
XX  
PT New genetic variants of Glutathione reductase isogenes, useful for  
PT improving efficiency and reliability in drug development for treating  
PT hemolytic anemia.  
XX  
PS Claim 14; Page 14; 137pp; English.  
XX  
CC The present invention describes genetic variants of the human glutathione  
XX reductase (GSR) gene (1). (1) has antianaemic activity and can be used in  
XX gene therapy. (1) can be used in screening for drugs targeting (1) that  
XX are useful for treating haemolytic anaemia. Methods from the present  
XX invention can be used; for improving the efficiency and reliability of  
XX several steps in the discovery and development of drugs for treating  
XX diseases associated with GSR activity; for haplotyping, which is also  
XX used by the pharmaceutical research scientist to validate GSR as a  
XX candidate target for treating a specific condition or disease predicted  
XX to be associated with GSR activity; and for screening compounds targeting  
XX design of clinical trials for treating a specific condition of disease  
XX associated with GSR activity; and for screening compounds targeting GSR.  
XX (1) is useful in studying the expression and function of GSR, and in  
XX expressing GSR protein for use in screening for candidate drugs to treat  
XX diseases related to GSR activity. (1) is also useful in studying the  
XX effect of the variation on the biological activity of GSR as well as on  
XX the binding affinity of candidate drugs targeting GSR for the treatment  
XX of haemolytic anaemia. The present sequence represents an allele specific  
XX oligonucleotide (ASO) primer for the human GSR gene, which is given in  
XX the exemplification of the present invention. N.B. The polymorphic base  
XX (showing a single nucleotide polymorphism) in the ASO primer is shown  
XX using an IUPAC ambiguity code (as given in the present invention)

Sequence 15 BP; 1 A; 9 C; 4 G; 0 T; 0 U; 1 Other;

```
Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 321 GTGCTGGCGCGGAC 335
DB 15 GRGCTGGCGCGGGC 1

RESULT 967
ABK32383
ID ABK32383 standard; DNA; 15 BP.
XX AC ABK32383;
XX DT 23-APR-2002 (first entry)
XX DE Human colon cancer SAGE tag #484.
XX KW Human; colon cancer; colorectal cancer; pancreatic cancer; SAGE tag;
KW serial analysis of gene expression; diagnostic; prognostic; probe;
KW cancer marker; ss.
XX OS Homo sapiens.
XX PN US6333152-B1.
XX PD 25-DEC-2001.
XX PF 20-MAY-1998; 98US-00081646.
XX PR 20-MAY-1998; 98US-00081646.
XX PA (UYJO ) UNIV JOHNS HOPKINS.
XX PI Vogelstein B, Kinzler KW, Zhang L, Zhou W;
XX DR WPI; 2002-153821/20.
XX CC New human nucleic acid containing specific SAGE tags, useful as
PT diagnostic markers for cancer, also derived probes.
XX PS Disclosure; Col 83; 161pp; English.
XX CC The invention relates to an isolated, purified human nucleic acid (I)
CC that has the same sequence as a mRNA found in humans and is a SAGE
CC (serial analysis of gene expression) tag comprising a single stranded
CC probe containing at least 10 consecutive nucleotides. SAGE tags, are
CC diagnostic and prognostic markers of cancer, especially of the colon and
CC pancreas. ABK31900-ABK32770 represent human colon and pancreatic cancer
CC SAGE tags of the invention
XX SQ Sequence 15 BP; 4 A; 1 C; 6 G; 4 T; 0 U; 0 Other;

Query Match      2.8%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 3.8e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 287 CAAGCTGGTGAAGGA 301
DB 1 CATGTTGGTGAAGGA 15

RESULT 969
ABK81782/c
ID ABK81782 standard; DNA; 15 BP.
XX AC ABK81782;
XX DT 13-AUG-2002 (first entry)
XX DE Human CHRM5 gene polymorphism detection ASO primer #8.
XX KW Human; cholinergic receptor muscarinic 5; CHRM5; genotyping; haplotyping;
KW single nucleotide polymorphism; SNP; allele-specific oligonucleotide;
KW ASO; primer; ss.
XX OS Homo sapiens.
XX PN WO200232924-A2.
XX PD 25-APR-2002.
XX PF 11-OCT-2001; 2001WO-US032022.
XX PR 19-OCT-2000; 2000WO-US029071.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Bieglecki KM, Chew A, Choi JY, Denton RR, Nandabalan K;
XX PI Sausker EA, Stephens JC;
XX SQ
```

DR WPI; 2002-435523/46.  
 XX Novel cholinergic receptor, muscarinic 5 polynucleotide useful  
 PT therapeutically and in screening for candidate drug to treat diseases  
 PT related to the receptor activity.  
 XX  
 PS Claim 14; Page 13; 72pp; English.  
 XX  
 CC The present invention relates to a new cholinergic receptor, muscarinic 5  
 CC (CHRM5) polynucleotide comprising a sequence which is a polymorphic  
 CC variant for a reference sequence for the CHRM5 gene or its fragment, or a  
 CC polymorphic variant of a reference sequence for a CHRM5 cDNA or its  
 CC fragment. The invention is useful in drug screening assays. The molecules  
 CC of the invention are useful in studying the expression and function of  
 CC CHRM5, and in expressing CHRM5 protein for use in screening for candidate  
 CC drugs to treat diseases related to CHRM5 activity. The methods of the  
 CC invention are useful in developing diagnostic tests and therapeutic  
 CC treatments. The method is also useful in the design of clinical trials of  
 CC candidate drugs for treating specific condition or disease associated  
 CC with CHRM5 activity and is useful in determining whether an individual  
 CC has one of the haplotypes or one of the haplotype pairs. The invention is  
 CC useful in a variety of diagnostic and prognostic formats and therapeutic  
 CC methods. The invention is also useful in genotyping and/or haplotyping  
 CC the CHRM5 gene in an individual. The present nucleic acid sequence  
 CC represents one of a collection of allele-specific oligonucleotide (ASO)  
 CC primers (ABK81775-ABK81794) that were used in the invention to detect  
 CC polymorphisms in the human CHRM5 gene  
 XX  
 SQ Sequence 15 BP; 2 A; 6 C; 4 G; 2 T; 0 U; 1 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 230 CAATCGGAGGCTG 244  
 Db 15 CYACTCGGAGGCTG 1  
 RESULT 970  
 ID ABZ76557  
 XX ABZ76557 standard; DNA; 15 BP.  
 AC ABZ76557;  
 XX  
 DT 29-APR-2003 (first entry)  
 DE Lactobacillus brevis PCR primer ORF4 SEQ ID NO:60.  
 XX Lactobacillus brevis; beer turbidity; beer clouding; beer; detection;  
 KW lactic acid bacteria; brewing; probe; PCR primer; ss.  
 XX Lactobacillus brevis.  
 OS  
 XX WO200295028-A1.  
 FN  
 XX 28-NOV-2002.  
 PD  
 XX 23-MAY-2002; 2002WO-JP005022.  
 PF  
 XX 23-MAY-2001; 2001JP-00154085.  
 PR  
 XX (KIRI) KIRIN BEER KK.  
 PA  
 XX Fujii T;  
 PI  
 XX WPI; 2003-120803/11.  
 DR  
 XX Polynucleotide probes and primers for detecting beer-clouding lactic acid  
 PT bacteria, for quality control during beer production applicable in  
 PT brewing industry.  
 XX  
 PS Claim 7; Page 31; 94pp; Japanese.

XX The present invention describes a polynucleotide probe, or primer, for  
 CC detecting beer-clouding lactic acid bacteria containing a nucleotide  
 CC sequence of (I) with 8056 base pairs (see ABZ76501), or a nucleotide made  
 CC from not less than 15 nucleotides hybridizable with its complementary  
 CC sequence. Probes and primers from the present invention can be used for  
 CC detecting beer-clouding lactic acid bacteria (Lactobacillus brevis) for  
 CC quality control during beer production, which is applicable in the  
 CC brewing industry. The present sequence represents a PCR primer for  
 CC Lactobacillus brevis which is used in the exemplification of the present  
 CC invention  
 XX  
 SQ Sequence 15 BP; 4 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 224 GCGGCGCAATCGG 238  
 Db 1 GCGGCGCAATCGTG 15  
 RESULT 971  
 ABX76536/C  
 ID ABX76536 standard; DNA; 15 BP.  
 XX  
 AC ABX76536;  
 XX  
 DT 01-APR-2003 (first entry)  
 DE M. avium 23S rRNA probe #19.  
 XX  
 KW Probe; 23S rRNA; 16S rRNA; tuberculosis; MTC; MOTT; peptide nucleic acid;  
 KW mycobacterium tuberculosis complex; precursor rRNA; rDNA; 5S rRNA; ss;  
 XX mycobacterium other than tuberculosis.  
 OS  
 XX Mycobacterium avium.  
 FN  
 XX US2002137035-A1.  
 PD  
 XX 26-SEP-2002.  
 PF  
 XX 07-APR-2000; 2000US-00544934.  
 PR  
 XX 07-APR-2000; 2000US-00544934.  
 PA (STEN/) STENDER H.  
 PA (LUND/) LUND K.  
 PA (MOLL/) MOLLERUP T A.  
 XX  
 PI Stender H, Lund K, Mollerup TA;  
 XX  
 DR WPI; 2003-174116/17.  
 XX  
 PT Peptide nucleic acid probes for detecting target sequences of  
 PT Mycobacteria in samples, e.g., sputum, which are capable of hybridizing  
 PT to a target sequence of mycobacterial rDNA, precursor rRNA or rRNA  
 PT forming detectable hybrids.  
 XX  
 PS Claim 22; Page 39; 74pp; English.  
 XX  
 CC The invention relates to a peptide nucleic acid capable of hybridizing to  
 CC a target sequence of Mycobacterial rDNA, precursor rRNA or rRNA (5S, 16S  
 CC or 23S) forming detectable hybrids. Also included are detecting a target  
 CC sequence of mycobacteria in a sample comprising contacting rRNA or rDNA  
 CC in the sample with peptide nucleic acid probes (hybridisation takes place  
 CC between the probe and the rRNA or rDNA), observing or measuring any  
 CC formed detectable hybrids and relating the observation or measurement to  
 CC the presence of a target sequence of mycobacteria in the sample, and a  
 CC kit for detecting a target sequence of mycobacteria in particular a  
 CC target sequence of mycobacteria of M. tuberculosis complex (MTC). The  
 CC probes are used for detecting a target sequence of MTC (and



CC distinguishing them from mycobacterium other than tuberculosis, MOTT)  
 CC present in a sample, e.g. sputum, laryngeal swabs, gastric lavage,  
 CC bronchial washings, biopsies, aspirates, expectorates, body fluids,  
 CC urine, tissue sections as well as food samples, soil, air and water  
 CC samples and their cultures. The probe is able to penetrate the cell wall  
 CC of the mycobacteria. It is able to hybridise to Mycobacterial precursor  
 CC rRNA and rRNA without harsh treatment of the mycobacterial cells,  
 CC therefore avoiding a risk of interfering with the morphology of the  
 CC cells. The present sequence is an M. avium probe for 16S or 23S rRNA  
 CC  
 XX Sequence 15 BP; 2 A; 6 C; 5 G; 2 T; 0 U; 0 Other;  
 SQ

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 13 AACTCGCGGTGACCG 27  
 DB 15 AGCTCCGGGTGACCG 1

## RESULT 972

AD36720  
 ID ADE36720 standard; DNA; 15 BP.

AC ADE36720;

XX 29-JAN-2004 (first entry)

DE DE3-1 plasmid construction related oligonucleotide SEQ ID NO:9.

XX neoplasm; Erbb-3; immune response; cytostatic; gene therapy; cancer;  
 KW human; ss.

XX Synthetic.

OS Homo sapiens.

XX WO2003080835-A1.

XX 02-OCT-2003.

XX 26-MAR-2003; 2003WO-CN000217.

XX 26-MAR-2002; 2002CN-00116259.

PR (ZENS-) ZENSUN SHANGHAI SCI TECH LTD.

PA Zhou M;

PI WPI; 2003-876924/81.

XX Use of an Erbb-3 protein, a nucleic acid encoding an Erbb-3 protein or  
 PT their fragments, for treating, preventing or delaying neoplasms (e.g.  
 PT urethra, uterus, vagina or vulva neoplasm) or cancers (e.g. breast, ovary  
 PT or colon cancer).

XX Example; SEQ ID NO 9; 68pp; English.

PS The present invention describes a method for treating, preventing or  
 CC delaying neoplasm in a mammal. The method comprises administering an Erbb  
 CC -3 protein, a nucleic acid encoding an Erbb-3 protein, or their  
 CC functional fragments, where an immune response is generated against the  
 CC neoplasm. Erbb-3 has cytostatic activity, and can be used in gene  
 CC therapy. The method is useful for treating, preventing or delaying  
 CC neoplasms (e.g. adrenal gland, anus, auditory nerve, bile ducts, bladder,  
 CC bone, brain, breast, buccal, central nervous system, cervix, colon, ear,  
 CC endometrium, esophagus, eye, eyelids, fallopian tube, gastrointestinal  
 CC tract, head and neck, heart, kidney, larynx, liver, lung, mandible,  
 CC mandibular condyle, maxilla, mouth, nasopharynx, nose, oral cavity,  
 CC ovary, pancreas, parotid gland, penis, pinna, pituitary, prostate gland,  
 CC rectum, retina, salivary glands, skin, small intestine, spinal cord,  
 CC stomach, testes, thyroid, tonsil, urethra, uterus, vagina,  
 CC vestibulocochlear nerve, or vulva neoplasm), or cancers (breast, ovary,

CC stomach, prostate, colon and lung cancer). The present sequence  
 CC represents an oligonucleotide used in the construction of a plasmid  
 CC comprising Erbb-3, which is used in an example from the present  
 CC invention.

XX Sequence 15 BP; 6 A; 4 C; 5 G; 0 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 3.8e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 384 GACGACGCGGCCAAG 398

DB 1 GACGACGACGACCAAG 15

## RESULT 973

AAQ65877  
 ID AAQ65877 standard; DNA; 16 BP.

XX AAQ65877;

XX 25-MAR-2003 (revised)

DT 22-DEC-1994 (first entry)

XX Type II procollagen sequencing primer 77.

XX Type II procollagen; COL2A1; amplification; primer;  
 KW polymerase chain reaction; PCR; osteoarthritis; cartilage; ss.

XX Synthetic.

XX WO9411532-A1.

XX 26-MAY-1994.

XX 12-NOV-1993; 93WO-US010964.

XX 13-NOV-1992; 92US-00977284.

XX (UYJE-) UNIV JEFFERSON THOMAS.

XX Prockop DJ, Ala-Kokko L, Williams CJ, Ritvaniemi P, Baldwin C;

PI Hopkinson I, Ahmad NN;

XX WPI; 1994-183530/22.

XX Detecting genetic pre-disposition to osteoarthritis - and other diseases  
 PT involving mutation in cartilage protein genes, by amplification and  
 PT analysis of DNA and comparison with standards.

PS Claim 18; Page 29; 112pp; English.

XX Claim 18 claims primers for use in detecting mutations in a mammalian  
 CC gene for a structural protein of cartilage comprising a sequence  
 CC identified in Table I (page 18-31). Table I includes 179 primer sequences  
 CC (see AAQ65728-Q65906). The following details are given for primer 77:  
 CC Region/exon: 45 Direction: sense Primer position: 18572 (Updated on 25-  
 CC MAR-2003 to correct PN field.)

XX Sequence 16 BP; 4 A; 4 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 61 AGTCTCTGCACTACG 75

DB 2 AGTCTCTGCACTAAG 16

## RESULT 974

AAT85365

ID AAT85365 standard; DNA; 16 BP.  
 XX  
 AC AAT85365;  
 XX  
 DT 10-DEC-1997 (first entry)  
 XX  
 DE Antisense p-ethoxy oligonucleotide against leukaemia cells.  
 XX  
 KW Human; acute lymphocytic leukaemia; ALL; Philadelphia chromosome;  
 KW chronic myelogenous leukaemia; Abl; break point cluster region; Bcr;  
 KW inhibition; tumour; ss.  
 XX  
 OS Synthetic.  
 XX  
 PH Key Location/Qualifiers  
 FT misc\_feature 1..16  
 FT /\*tag= a  
 FT /note= "p-ethoxy linkages"  
 XX  
 PN WO9707784-A2.  
 XX  
 PD 06-MAR-1997.  
 XX  
 PF 26-AUG-1996; 96WO-US014146.  
 XX  
 PR 29-AUG-1995; 95US-00520385.  
 XX  
 PA (TEXA ) UNIV TEXAS SYSTEM.  
 XX  
 PI Lopez-Berestein G, Tari AM;  
 XX  
 DR WPI; 1997-178904/16.  
 XX  
 PT Anti-sense oligonucleotide liposomal compans. - comprise neutral  
 PT phospholipid(s) with phosphodiester oligonucleotide(s),  
 PT phosphorothioate oligonucleotide(s) or p-ethoxy oligonucleotide(s).  
 XX  
 PS Claim 7; Page 19; 26pp; English.  
 XX  
 CC A novel liposomal composition of antisense oligonucleotides has been  
 CC developed. The composition comprises: (a) a liposome which consists  
 CC entirely of neutral phospholipids; and (b) an antisense oligonucleotide  
 CC that is entrapped in the liposome and is selected from phosphodiester  
 CC oligonucleotides, phosphorothioate oligonucleotides, and p-ethoxy  
 CC oligonucleotides. The present sequence represents a specifically claimed  
 CC antisense p-ethoxy oligonucleotide against Bcr exon 1/2bl exon 2 (B1/A2)  
 CC found in human acute lymphocytic leukaemia cells. The compositions are  
 CC used particularly for inhibiting the growth of tumour cells. The  
 CC compositions minimise nuclease hydrolysis of the oligonucleotides and  
 CC also result in increased cellular uptake and intracellular delivery of  
 CC the antisense oligonucleotides. The compositions also enhance the  
 CC incorporation of oligonucleotides in the liposomes compared to known  
 CC liposomal formulations  
 XX  
 SQ Sequence 16 BP; 2 A; 4 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 398 GAAGGCTCTTCTACGT 412  
 Db 1 GAAAGGCTCTTCTCGT 15  
 RESULT 975  
 AAV66874/c  
 ID AAV66874 standard; RNA; 16 BP.  
 XX  
 AC AAV66874;  
 XX  
 DT 18-JAN-1999 (first entry)  
 XX

DE Oligonucleotide for the last 16 nucleotides of K2.  
 XX  
 KW Human; tissue plasminogen activator; t-PA; chimeric gene assembly;  
 KW manipulation; ribozyme; intron-mediated recombinant technique; cleavage;  
 KW ligation; trans-splicing; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9840519-A1.  
 XX  
 PD 17-SEP-1998.  
 XX  
 PF 11-MAR-1998; 98WO-US004881.  
 XX  
 PR 11-MAR-1997; 97US-00814412.  
 XX  
 PA (UYBO-) UNIV BOSTON.  
 XX  
 PI Jarrell KA;  
 XX  
 DR WPI; 1998-531526/45.  
 XX  
 PT Manipulation of nucleic acids - using intron sequences to mediate  
 PT specific cleavage and ligation of discontinuous nucleic acid molecules by  
 PT trans-splicing.  
 XX  
 PS Example 1; Page 36; 160pp; English.  
 XX  
 CC A method has been developed for producing a recombinant DNA molecule. The  
 CC method comprises: (a) providing a first DNA/RNA hybrid molecule  
 CC comprising a first DNA linked to a first splicing component; (b)  
 CC providing a second DNA/RNA hybrid molecule comprising a second DNA linked  
 CC to a second splicing component, which second splicing component is  
 CC selected so that, when the first and second DNA/RNA hybrid molecules are  
 CC adjoined together, trans-splicing between the first and second splicing  
 CC component covalently links the first DNA with the second DNA to form a  
 CC single recombinant DNA molecule; and (c) admixing the first and second  
 CC DNA/RNA hybrid molecules together so that the recombinant DNA molecule is  
 CC produced by trans-splicing. The method can be used for the manipulation  
 CC of nucleic acids. Novel genes and gene products can be generated by  
 CC admixing nucleic acid constructs comprising exon nucleic acid sequences  
 CC flanked by intron sequences that can direct trans-splicing of the exon  
 CC sequences to each other. The flanking intronic sequences, by  
 CC intermolecular complementation between the flanking intron sequences of  
 CC two different constructs, form a functional intron which mediates the  
 CC transesterification reactions necessary to cause the ligation of the  
 CC discontinuous nucleic acid sequences to one another, and thereby generate  
 CC a recombinant gene comprising the ligated exons. The present sequence  
 CC represents an oligonucleotide used in an example from the present  
 CC invention  
 XX  
 SQ Sequence 16 BP; 0 A; 8 C; 3 G; 0 T; 5 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 4.4e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 272 GGAGCAGGCGGCAC 286  
 Db 16 GGAGCAGGCGGCAC 2  
 RESULT 976  
 AAX09083  
 ID AAX09083 standard; DNA; 16 BP.  
 XX  
 AC AAX09083;  
 XX  
 DT 14-JUN-1999 (first entry)  
 XX  
 DE Tumour necrosis factor alpha antisense oligonucleotide.  
 XX



```
PT template.
PS Disclosure; Fig 3A; 34pp; English.
XX
CC The present invention relates to a method for selecting PCR primers for
CC nucleic acid amplification. The method comprises determining the melting
CC temperature (Tm) range for degenerate oligonucleotide primers with a
CC fixed-sequence portion (FS) and a degenerate-sequence portion (DS) by
CC searching known portion of a nucleic acid template for a sequence
CC complementary to a desired FS of a primer. Nucleotide base pairs flanking
CC or interspersed between the sequence complementary to a DS of one of the
CC primers are detected and Tm is calculated. The method of the present
CC invention allows primers which produce more efficient DNA amplification
CC to be produced. The present sequence is a primer used in the method of
CC the present invention
XX
SQ Sequence 16 BP; 1 A; 11 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 142 TGCGCGGTGGAGCGCG 156
Db 15 TGCGCGCGGTGGAGCGCG 1
RESULT 979
AAC63248/c
ID AAC63248 standard; DNA; 16 BP.
XX
AC AAC63248;
XX
DT 06-FEB-2001 (first entry)
XX
DE Oligonucleotide #21 used in a method for primer selection.
XX
KW PCR primer; nucleic acid amplification; melting temperature; Tm; ss.
XX
OS Homo sapiens.
XX
FN WO2000060123-A2.
XX
PD 12-OCT-2000.
XX
PF 05-APR-2000; 2000WO-US008962.
XX
PR 06-APR-1999; 99US-0127891P.
XX
PA (GENO-) GENOME TECHNOLOGIES LLC.
XX
PI Senapathy P;
XX
DR WPI; 2000-656235/63.
XX
PT Determining Tm range for several degenerate primers with a fixed-sequence
PT and a degenerate-sequence portion for use in polymerase chain reaction
PT amplification by identifying a specific sequence in the nucleic acid
PT template.
XX
PS Disclosure; Fig 3A; 34pp; English.
XX
CC The present invention relates to a method for selecting PCR primers for
CC nucleic acid amplification. The method comprises determining the melting
CC temperature (Tm) range for degenerate oligonucleotide primers with a
CC fixed-sequence portion (FS) and a degenerate-sequence portion (DS) by
CC searching known portion of a nucleic acid template for a sequence
CC complementary to a desired FS of a primer. Nucleotide base pairs flanking
CC or interspersed between the sequence complementary to a DS of one of the
CC primers are detected and Tm is calculated. The method of the present
CC invention allows primers which produce more efficient DNA amplification
CC to be produced. The present sequence is a primer used in the method of
CC the present invention
XX
SQ Sequence 16 BP; 1 A; 11 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 142 TGCGCGGTGGAGCGCG 156
Db 15 TGCGCGCGGTGGAGCGCG 1
RESULT 980
AAD22030
ID AAD22030 standard; DNA; 16 BP.
XX
AC AAD22030;
XX
DT 12-FEB-2002 (first entry)
XX
DE Human sitosterolaemia susceptibility gene (SSG) exon5 5' splice site.
XX
KW Human; sitosterolaemia susceptibility gene; SSG; atherosclerosis;
KW sterol-related disorder; hyperlipidaemia; hypercholesterolaemia; therapy;
KW gall stone; coronary heart disease; cardiovascular disease; arthritis;
KW xanthoma; haemolytic anaemia; transgenic animal; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT misc_feature 1..9
FT /tag= a
FT /note= "Intron"
FT misc_feature 10..16
FT /tag= b
FT /note= "Exon"
XX
PN WO200179272-A2.
XX
PD 25-OCT-2001.
XX
PF 18-APR-2001; 2001WO-US012758.
XX
PR 18-APR-2000; 2000US-0198465P.
XX
PR 15-MAY-2000; 2000US-0204234P.
XX
PA (TULA-) TULARIK INC.
XX
PI Tian H, Schultz J, Shan B;
XX
DR WPI; 2002-017598/02.
XX
PT Novel sitosterolemia susceptibility gene polypeptide and polynucleotide,
PT useful for screening a compound that increases the level of expression or
PT activity of SSG polypeptide for treating sterol-related disorder.
XX
PS Disclosure; Fig 14B; 105pp; English.
XX
CC The invention relates to an isolated sitosterolaemia Susceptibility Gene
CC (SSG) polypeptide. SSG is a member of adenosine triphosphate (ATP)
CC binding cassette (ABC) family cholesterol transporter. SSG is useful for
CC identifying a compound useful in the treatment or prevention of a sterol-
CC related disorder, including sitosterolaemia, hyperlipidaemia,
CC hypercholesterolaemia, gall stones, HDL deficiency, atherosclerosis or
CC nutritional deficiencies. SSG is also useful for treating cholesterol-
CC associated diseases or conditions including coronary heart disease and
CC other cardiovascular diseases, and sitosterolaemia-associated condition
CC including arthritis, xanthomas and chronic haemolytic anaemia. SSG
CC expression cassette is useful in the production of transgenic non-human
CC animals. SSG genes and their homologues are useful as tools for a number
CC of applications including diagnosing sitosterolaemia and other
CC cardiovascular disorders, for forensic and paternity determinations, and
CC for treating any of a large number of SSG associated diseases. The
```

```
XX SQ Sequence 16 BP; 0 A; 10 C; 5 G; 1 T; 0 U; 0 Other;
```

```
Query Match 2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. No. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 305 GAGCCCGCGGACCG 319
Db 15 GAGCCCGCGGCGCG 1
```

```
RESULT 980
AAD22030
ID AAD22030 standard; DNA; 16 BP.
```

```
XX AC AAD22030;
```

```
XX DT 12-FEB-2002 (first entry)
```

```
XX DE Human sitosterolaemia susceptibility gene (SSG) exon5 5' splice site.
```

```
XX KW Human; sitosterolaemia susceptibility gene; SSG; atherosclerosis;
KW sterol-related disorder; hyperlipidaemia; hypercholesterolaemia; therapy;
KW gall stone; coronary heart disease; cardiovascular disease; arthritis;
KW xanthoma; haemolytic anaemia; transgenic animal; ds.
```

```
XX OS Homo sapiens.
```

```
XX FH Key Location/Qualifiers
FT misc_feature 1..9
FT /tag= a
FT /note= "Intron"
FT misc_feature 10..16
FT /tag= b
FT /note= "Exon"
```

```
XX PN WO200179272-A2.
```

```
XX PD 25-OCT-2001.
```

```
XX PF 18-APR-2001; 2001WO-US012758.
```

```
XX PR 18-APR-2000; 2000US-0198465P.
```

```
XX PR 15-MAY-2000; 2000US-0204234P.
```

```
XX PA (TULA-) TULARIK INC.
```

```
XX PI Tian H, Schultz J, Shan B;
```

```
XX DR WPI; 2002-017598/02.
```

```
XX PT Novel sitosterolemia susceptibility gene polypeptide and polynucleotide,
XX useful for screening a compound that increases the level of expression or
XX activity of SSG polypeptide for treating sterol-related disorder.
```

```
XX PS Disclosure; Fig 14B; 105pp; English.
```

```
XX CC The invention relates to an isolated sitosterolaemia Susceptibility Gene
XX (SSG) polypeptide. SSG is a member of adenosine triphosphate (ATP)
XX binding cassette (ABC) family cholesterol transporter. SSG is useful for
XX identifying a compound useful in the treatment or prevention of a sterol-
XX related disorder, including sitosterolaemia, hyperlipidaemia,
XX hypercholesterolaemia, gall stones, HDL deficiency, atherosclerosis or
XX nutritional deficiencies. SSG is also useful for treating cholesterol-
XX associated diseases or conditions including coronary heart disease and
XX other cardiovascular diseases, and sitosterolaemia-associated condition
XX including arthritis, xanthomas and chronic haemolytic anaemia. SSG
XX expression cassette is useful in the production of transgenic non-human
XX animals. SSG genes and their homologues are useful as tools for a number
XX of applications including diagnosing sitosterolaemia and other
XX cardiovascular disorders, for forensic and paternity determinations, and
XX for treating any of a large number of SSG associated diseases. The
```

```
CC present sequence is human SSG exon splice site
XX Sequence 16 BP; 2 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. NO. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      142 TGGCGGTGGAGCGC 156
Db      1 TGCAGGTGGAGCGC 15

RESULT 981
ABL31248
ID ABL31248 standard; DNA; 16 BP.
XX
AC ABL31248;
XX
DT 21-MAR-2002 (first entry)
XX
DE Human HLA genotyping oligonucleotide SEQ ID NO 737.
XX
XX Human, human leukocyte antigen; HLA; genotype; polymorphism;
XX immunogenetic; transplantation; genetic disease; ss.
XX
OS Homo sapiens.
XX
XX WO200192572-A1.
XX
XX 06-DEC-2001.
XX
XX 01-JUN-2001; 2001WO-JP004662.
XX
XX 01-JUN-2000; 2000JP-00164798.
XX
XX (NISR) NISSHINBO IND INC.
XX (SYST-) SYSTEM RES INC.
XX
XX Inoko H, Kagiya T, Ichihara T, Matsumura Y, Moriya S, Nishida M;
XX WPI; 2002-122074/16.
XX
XX Human leukocyte antigen (HLA) typing, useful for judging HLA genotypes of
XX individuals e.g. by determining immunogenetic differences when
XX transplanting between them.
XX
XX Claim 10; Page 233; 345pp; Japanese.
XX
XX The invention relates to a typing kit for judging human leukocyte antigen
XX (HLA) genotype of a sample by hybridising a substrate on which 10-24 base
XX oligonucleotides (ABL30512-ABL31809) originating in the sequences of
XX genes e.g. belonging to HLA class I antigens on human genome and
XX containing gene polymorphisms as alloantigens have been immobilised as
XX primers for amplification of cleaved nucleic acids relating to gene
XX polymorphisms. The method is useful for judging HLA genotypes of
XX individuals by determining immunogenetic differences before transplanting
XX between them, providing genetic information to decide compatibility of
XX organ and tissue for transplantation e.g. of bone marrow, kidney, liver,
XX pancreas, Langerhans islet in pancreas and of cornea, susceptibility
XX diagnosis of genetic diseases and identifying individuals
XX
XX Sequence 16 BP; 2 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. NO. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      269 CCTGGAGCAGGCGG 283
Db      1 CCTGGAGCAGGCGG 15

CC present sequence is human SSG exon splice site
XX Sequence 16 BP; 2 A; 3 C; 8 G; 3 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. NO. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      353 CTACAGCGACTTCCT 367
Db      16 CTCGAGCGACTTCCT 2

RESULT 982
ABN79955/c
ID ABN79955 standard; DNA; 16 BP.
XX
AC ABN79955;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human CYP2D6 gene sequencing primer A182FS.
XX
XX Human; single nucleotide polymorphism; nucleic acid typing;
XX tissue typing; sequencing; primer; ss.
XX
OS Homo sapiens.
XX
XX WO200220837-A2.
XX
XX 14-MAR-2002.
XX
XX 10-SEP-2001; 2001WO-GB004042.
XX
XX 08-SEP-2000; 2000GB-00022069.
XX
XX (PYRO-) PYROSEQUENCING AB.
XX (STRD) UNIV LELAND STANFORD JUNIOR.
XX (GARD/) GARDNER R.
XX
XX Ronaghi M, Ekstroem B, Fourmand N;
XX WPI; 2002-393849/42.
XX
XX Typing nucleic acid for obtaining information about several variable
XX sites involves simultaneously or sequentially performing two or more
XX primer extension reactions, and determining the pattern of nucleotide
XX incorporation.
XX
XX Example 5; Page 59; 86pp; English.
XX
XX The invention relates to a novel method for obtaining typing information
XX about several variable sites within target nucleic acid, or typing one or
XX more nucleic acid molecules. The methods of the invention are useful for
XX typing one or more nucleic acid molecules containing three or more variable
XX sites, preferably nucleic acid molecules containing three or more
XX variable sites are typed, where three or more primer extension reactions
XX are performed. The method is also useful for diagnosis of pathological
XX conditions characterized by the presence of specific nucleic acid
XX molecule(s). The methods are particularly suited for identifying
XX microbial species or their subtypes, and in typing procedures e.g. typing
XX of polymorphisms, tissue typing or in clinical applications. The sequence
XX represents a PCR primer used to sequence fragment 6118 of the CYP2D6
XX gene, which is a member of the cytochrome P450 gene superfamily
XX
XX Sequence 16 BP; 5 A; 3 C; 6 G; 2 T; 0 U; 0 Other;
SQ

Query Match      2.8%; Score 11.8; DB 1; Length 16;
Best Local Similarity 86.7%; Pred. NO. 4.4e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      353 CTACAGCGACTTCCT 367
Db      16 CTCGAGCGACTTCCT 2

RESULT 983
ABX04806/c
ID ABX04806 standard; DNA; 16 BP.
XX
AC ABX04806;
XX
DT 15-JAN-2003 (first entry)
XX
XX Guanylate kinase gene associated oligonucleotide #22.
XX
```

KW Herpesviridae; thymidine kinase; TK; DRH nucleoside binding region;  
 KW viral inhibitor; bacterial inhibitor; parasite inhibitor; tumour;  
 KW autoreactive immune cell; cancer; hyperkeratosis; psoriasis;  
 KW prostate hypertrophy; hyperthyroidism; endocrinopathy; allergy;  
 KW autoimmune disease; restenosis; viral disease; AIDS; hepatitis; HCV; HBV;  
 KW acquired immunodeficiency syndrome; intracellular parasitic disease;  
 KW gene therapy; adenosine deaminase deficiency; Alzheimer's disease; ss;  
 KW guanylate kinase.  
 XX Mus sp.  
 XX US6451571-B1.  
 XX 17-SEP-2002.  
 XX 17-MAR-1999; 99US-00270956.  
 XX 02-MAY-1994; 94US-00237592.  
 XX 02-MAY-1995; 95US-00432871.  
 XX 02-NOV-1995; 95US-00552304.  
 XX (UNIW ) UNIV WASHINGTON.  
 XX Loeb LA, Black ME;  
 XX WPI; 2003-045581/04.  
 XX Novel Herpesviridae thymidine kinase mutant useful for inhibiting  
 PT pathogens e.g. viruses, bacteria, tumor in animals, has one or more  
 PT mutations encoding amino acid substitutions upstream from the DRH  
 PT nucleoside binding site.  
 XX Example 9; Col 48; 78pp; English.  
 XX The invention describes an isolated Herpesviridae thymidine kinase (TK)  
 CC comprising a 12 amino acid (aa) nucleoside binding region having a site 3  
 CC made up of a DRH nucleoside binding site and a site 4 and mutation(s), at  
 CC least one of the mutations being an aa substitution 2 or 3 aa upstream or  
 CC 5 or more aa downstream from the DRH motif that increases a biological  
 CC activity, preferably ability of TK to phosphorylate a nucleoside  
 CC analogue, as compared to unmutated TK. TK mutants are useful for  
 CC inhibiting a pathogenic agent such as viruses, bacteria, parasites,  
 CC tumour cells or autoreactive immune cells in a warm-blooded animal. TK  
 CC mutant is useful for inhibiting a tumour or cancer in a warm-blooded  
 CC animal, for treating a variety of disease e.g., hyperkeratosis  
 CC (psoriasis), prostate hypertrophy, hyperthyroidism, endocrinopathies,  
 CC autoimmune diseases, allergies, restenosis, viral diseases such as  
 CC acquired immunodeficiency syndrome (AIDS) hepatitis (HCV or HBV),  
 CC intracellular parasitic diseases, and to correct aberrant expression of a  
 CC gene within a cell, or to replace a specific gene which is defective in  
 CC proper expression using gene therapy, e.g. including adenosine deaminase  
 CC deficiency, and Alzheimer's diseases. The mutants are utilised as a  
 CC conditionally lethal marker for homologous recombination. This sequence  
 CC represents an oligonucleotide used in the isolation, purification and  
 CC characterisation of guanylate kinase  
 XX Sequence 16 BP; 2 A; 10 C; 2 G; 2 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 16;  
 XX Best Local Similarity 86.7%; Pred. No. 4.4e+02;  
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 139 GCTTGGCGGTGGAGG 153  
 Db 16 GCTTGGAGGTGGGGG 2  
 RESULT 984  
 ACD82537/C  
 ID ACD82537 standard; DNA; 16 BP.  
 XX AC ACD82537;  
 XX OS

DT 19-SEP-2003 (first entry)  
 XX Nucleic acid cloning associated adaptor molecule #238.  
 XX Adaptor molecule; nucleic acid cloning; nucleic acid ligating;  
 KW internal deletion mutagenesis analysis; cloning vehicle; ss.  
 XX Synthetic.  
 XX US2003044791-A1.  
 XX 06-MAR-2003.  
 XX 13-JUN-2001; 2001US-00880313.  
 XX 13-JUN-2001; 2001US-00880313.  
 XX (FLEM/) FLEMINGTON E K.  
 XX Flemington EK;  
 XX WPI; 2003-521745/49.  
 XX New adaptor molecules, useful for cloning nucleic acid molecules that  
 PT does not require the design and synthesis of oligonucleotides or PCR  
 PT primers.  
 XX Claim 12; Fig 5; 100pp; English.  
 XX The invention describes adaptor molecules, where each end of the adaptor  
 CC is compatible with a nucleic acid digested with a restriction enzyme or a  
 CC nucleic acid comprising an end that is compatible with a nucleic acid  
 CC digested with a restriction enzyme. The adaptor molecules, compositions,  
 CC kits and arrays are useful for cloning nucleic acid molecules that does  
 CC not require the design and synthesis of oligonucleotides or PCR primers.  
 CC The adaptors, kits and arrays are also useful for ligating two ends of a  
 CC single nucleic acid molecule, or ligating two or more nucleic acid  
 CC molecules. The kits can also be used for performing internal deletion  
 CC mutagenesis analysis. The adaptor molecules are ligated to a cloning  
 CC vehicle, making the cloning procedure more rapid and efficient, and less  
 CC error-prone. This sequence represents a nucleic acid cloning associated  
 CC adaptor molecule  
 XX Sequence 16 BP; 2 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 16;  
 XX Best Local Similarity 86.7%; Pred. No. 4.4e+02;  
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 278 GCGCGGCGCCCAAGCT 292  
 Db 15 GCGGTGCAGCAAGCT 1  
 RESULT 985  
 AAQ47568  
 ID AAQ47568 standard; cDNA to mRNA; 17 BP.  
 XX AAQ47568;  
 XX 25-MAR-2003 (revised)  
 DT 26-JAN-1994 (first entry)  
 XX Specific B type jun gene probe.  
 XX quantification; human; GTP binding protein; G protein; alpha subunit;  
 KW specific mRNA; detection; hybridisation; diagnosis; pathophysiology;  
 KW disease state; hereditary; cancer; infectious; osteodystrophy;  
 KW pituitary tumour; acromegaly; melanoma cells; diabetes; PCR;  
 KW polymerase chain reaction; ss.  
 XX Synthetic.  
 XX OS

PN WO9315221-A1.  
XX  
PD 05-AUG-1993.  
XX  
PF 29-JAN-1993; 93WO-US000977.  
XX  
PR 29-JAN-1992; 92US-00827208.  
XX  
PR 24-MAR-1992; 92US-00857059.  
XX  
PR 12-NOV-1992; 92US-00974409.  
XX  
XX (HITB ) HITACHI CHEM CO LTD.  
PA (HITB ) HITACHI CHEM RES CENT INC.  
XX  
XX Akitaya T, Cooper A, Mitsuhashi M;  
PI WPI; 1993-258695/32.  
XX  
DR  
XX  
XX Quantitating messenger RNA in sample - using immobilised-polynucleotide  
PT having sequence complementary to sequence unique to the mRNA.  
XX  
XX Example 9; Page 67; 177pp; English.  
XX  
XX The sequence is that of a specific B type jun gene probe which was used  
CC in the method of the invention for the detection and quantification of  
CC mRNAs in a sample without the need to purify the mRNA from cells. The  
CC claimed method comprises identifying a polynucleotide sequence unique to  
CC the mRNA, and immobilising an oligomer complementary to this sequence to  
CC an insoluble support. The sample is then incubated with the insoluble  
CC support such that the unique sequence will hybridise to the bound  
CC oligomer and be immobilised. Non-immobilised components are washed from  
CC the support and bound RNA is labelled in such a way that the label is  
CC incorporated onto the support relative to the amount of mRNA on the  
CC support. The amount of bound label is then determined. This method can be  
CC used for the reliable, rapid, simultaneous quantification of multiple  
CC varieties of mRNA. It may be used for diagnosing and recognition of  
CC pathophysiology of various disease states, eg. hereditary diseases,  
CC cancer, and infectious diseases. G proteins are thought to be involved in  
CC causing various disease states. A genetic deficiency of Gs protein is the  
CC molecular basis of hereditary osteodystrophy. Pituitary tumours in  
CC acromegalic patients have been shown to contain mutant Gs proteins. G  
CC proteins are also involved in invasive and metastatic melanoma cells, and  
CC diabetes. See also AAQ47381-666. (Updated on 25-MAR-2003 to correct PN  
CC field.)  
XX  
SQ Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
QY 217 ACTCGGTGGCGGCCA 231  
DB 2 ACTTGGTGGCGGCCA 16  
RESULT 986  
AAQ47593/c  
ID AAQ47593 standard; cDNA to mRNA; 17 BP.  
XX  
XX AAQ47593;  
AC  
XX 25-MAR-2003 (revised)  
DT 26-JAN-1994 (first entry)  
XX  
XX Jun-B specific probe B-1258.  
DE  
XX quantification; human; GTP binding protein; G protein; alpha subunit;  
KW specific mRNA; detection; hybridisation; diagnosis; pathophysiology;  
KW disease state; hereditary; cancer; infectious; osteodystrophy;  
KW pituitary tumour; acromegaly; melanoma cells; diabetes; PCR;  
KW polymerase chain reaction; ss.  
XX  
OS Synthetic.

XX WO9315221-A1.  
XX  
PD 05-AUG-1993.  
XX  
PF 29-JAN-1993; 93WO-US000977.  
XX  
PR 29-JAN-1992; 92US-00827208.  
XX  
PR 24-MAR-1992; 92US-00857059.  
XX  
PR 12-NOV-1992; 92US-00974409.  
XX  
XX (HITB ) HITACHI CHEM CO LTD.  
PA (HITB ) HITACHI CHEM RES CENT INC.  
XX  
XX Akitaya T, Cooper A, Mitsuhashi M;  
PI WPI; 1993-258695/32.  
XX  
DR  
XX  
XX Quantitating messenger RNA in sample - using immobilised-polynucleotide  
PT having sequence complementary to sequence unique to the mRNA.  
XX  
XX Example 9; Page 71; 177pp; English.  
XX  
XX The sequence is that of the jun-B specific probe B-1258 which may be used  
CC in the detection of jun oncogenes. It was used in the method of the  
CC invention for the detection and quantification of mRNAs in a sample  
CC without the need to purify the mRNA from cells. The claimed method  
CC comprises identifying a polynucleotide sequence unique to the mRNA, and  
CC immobilising an oligomer complementary to this sequence to an insoluble  
CC support. The sample is then incubated with the insoluble support such  
CC that the unique sequence will hybridise to the bound oligomer and be  
CC immobilised. Non-immobilised components are washed from the support and  
CC bound RNA is labelled in such a way that the label is incorporated onto  
CC the support relative to the amount of mRNA on the support. The amount of  
CC bound label is then determined. This method can be used for the reliable,  
CC rapid, simultaneous quantification of multiple varieties of mRNA. It may  
CC be used for diagnosing and recognition of pathophysiology of various  
CC disease states, eg. hereditary diseases, cancer, and infectious diseases.  
CC G proteins are thought to be involved in causing various disease states.  
CC A genetic deficiency of Gs protein is the molecular basis of hereditary  
CC osteodystrophy. Pituitary tumours in acromegalic patients have been shown  
CC to contain mutant Gs proteins. G proteins are also involved in invasive  
CC and metastatic melanoma cells, and diabetes. See also AAQ47381-666.  
CC (Updated on 25-MAR-2003 to correct PN field.)  
XX  
SQ Sequence 17 BP; 3 A; 6 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
QY 217 ACTCGGTGGCGGCCA 231  
DB 16 ACTTGGTGGCGGCCA 2  
RESULT 987  
AAQ56954  
ID AAQ56954 standard; DNA; 17 BP.  
XX  
XX AAQ56954;  
AC  
XX 14-MAY-2003 (revised)  
DT 25-MAR-2003 (revised)  
DT 01-SEP-1994 (first entry)  
XX  
XX pH 2.5 acid phosphatase probe oligo PHY-34 #3.  
DE  
XX phosphate; pH 2.5 acid phosphatase; A. niger; strain ALK0243; mineral;  
KW liberation; phytate; plant material; feed treatment; animal; inositol;  
KW enzyme mixture; hydrolysis; phosphate; phytic acid complex; ss.  
XX  
OS Synthetic.

```

XX PN W09403072-A1.
XX PD 17-FEB-1994.
XX PF 27-JUL-1993; 93WO-US007058.
XX PR 31-JUL-1992; 92US-00925401.
XX PA (PANL-) PANLABS INC.
XX PA (NEVA/) NEVALAINEN H K M.
XX PA (ALKO-) ALKO LTD.
XX PI Paloheimo MT, Fagerstroem RB, Miettinen-Oinonen ASK, Turunen MK;
XX PI Rambosek JA, Piddingstrom CS, Houston CS, Cantrell MA;
XX DR WPI; 1994-065302/08.
XX XX
XX XX Nucleic acid encoding phytase and pH 2.5 acid phosphatase - Used to
XX XX produce the enzymes and enzyme mixts. for liberating minerals from
XX XX phytate, partic. for animal feed.
XX PS Example 1; Page 31; 103pp; English.
XX XX
XX XX The sequences given in AAQ56948-59 are probes which were used in the
XX XX isolation of the pH 2.5 acid phosphatase (AP) from A. niger var. awamori
XX XX strain ALK0243. These probes are based on peptide #816 and #1110 (see
XX XX also AAQ4233). The isolated sequences were used to transform host
XX XX cells for the expression of the pH 2.5 AP protein. The pH 2.5 AP protein
XX XX can be used to liberate minerals from phytates in plant materials either
XX XX in vitro, ie, in feed treatment processes, or in vivo, ie, by
XX XX administering the enzymes to animals. This enzyme can be mixed to provide
XX XX a balanced enzyme mixture in which cooperative enzyme activity rapidly
XX XX and effectively catalyzes the near complete hydrolysis of phytate to
XX XX inositol and free phosphate with release of minerals from the phytic
XX XX acid complex. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
XX XX 14-MAR-2003 to correct PS field.)
XX SQ Sequence 17 BP; 5 A; 6 C; 0 G; 6 T; 0 U; 0 Other;
XX XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX XX
XX QY 359 CGACTTCTCTCACTTT 373
XX DB 1 CCACTTCTCTCAATTT 15
XX XX
RESULT 988
XX ID AAQ89601 standard; DNA; 17 BP.
XX AC AAQ89601;
XX XX
XX DT 06-NOV-1995 (first entry)
XX DE Kappa-casein DNA primer AA75-80B.
XX KW Kappa-casein; milk protein; primer; polymerase chain reaction; PCR; ss.
XX OS Synthetic.
XX PN US5391497-A.
XX XX
XX PD 21-FEB-1995.
XX PF 13-OCT-1992; 92US-00962569.
XX PR 13-OCT-1992; 92US-00962569.
XX FA (COLS ) UNIV COLORADO FOUND INC.
XX XX

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PI Ham RG, Jeffers KF, Menon RS, Chang Y;
XX WPI; 1995-160470/21.
XX DR P-PSDB; AAR72699.
XX XX
XX XX DNA encoding human kappa-casein - used for the prodn. of large amts. of
XX XX highly purified kappa-casein milk protein for infant use.
XX PS Example D; Col 11; 14pp; English.
XX XX
XX XX A commercial cDNA library prepd. in lambda gtl1 from mRNA obtd. from
XX XX human breast tissue removed during the third trimester of pregnancy was
XX XX screened with rabbit anti-bovine kappa-casein cDNA. The cDNA insert of a
XX XX recombinant phage was amplified by PCR using the lambda sequencing
XX XX primers given in AAQ89599-600 and the kappa-casein primer given in
XX XX AAQ89601 to obtain a clone encoding human kappa-casein
XX SQ Sequence 17 BP; 4 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
XX XX
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX XX
XX QY 179 GTCCAAGGCACATAT 193
XX DB 1 GTGCGAGGCACATAT 15
XX XX
RESULT 989
XX ID AAT53541 standard; RNA; 17 BP.
XX AC AAT53541;
XX XX
XX DT 25-MAR-2003 (revised)
XX DT 27-MAR-1997 (first entry)
XX DE Rat ICAM hammerhead ribozyme target sequence (nt. position 1092).
XX KW Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
XX KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
XX KW intercellular adhesion molecule; rel A; tumour necrosis factor;
XX KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
XX KW translocation; chronic myelogenous leukaemia; CML; cancer;
XX KW Philadelphia chromosome; inflammation; autoimmune disease;
XX KW atherosclerosis; myocardial infarction; stroke; restenosis;
XX KW transplant rejection; rheumatoid arthritis; psoriasis;
XX KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
XX KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
XX KW ss.
XX OS Rattus rattus.
XX XX
XX PN W09523225-A2.
XX XX
XX PD 31-AUG-1995.
XX XX
XX PF 23-FEB-1995; 95WO-IB000156.
XX XX
XX PR 23-FEB-1994; 94US-00201109.
XX PR 29-MAR-1994; 94US-00218934.
XX PR 04-APR-1994; 94US-00222795.
XX PR 07-APR-1994; 94US-00224483.
XX PR 15-APR-1994; 94US-00227958.
XX PR 15-APR-1994; 94US-00228041.
XX PR 18-MAY-1994; 94US-00245736.
XX PR 06-JUL-1994; 94US-00271280.
XX PR 15-AUG-1994; 94US-00291932.
XX PR 16-AUG-1994; 94US-00291433.
XX PR 17-AUG-1994; 94US-00292620.
XX PR 19-AUG-1994; 94US-00293520.
XX PR 02-SEP-1994; 94US-00300000.
XX PR 08-SEP-1994; 94US-00303039.

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XX	Rattus rattus.
XX	WO9523225-A2.
XX	31-AUG-1995.
XX	23-FEB-1995; 95WO-IB000156.
XX	23-FEB-1994; 94US-00201109.
XX	29-MAR-1994; 94US-00218934.
XX	04-APR-1994; 94US-00222795.
XX	07-APR-1994; 94US-00224483.
XX	15-APR-1994; 94US-00237958.
XX	15-APR-1994; 94US-00228041.
XX	18-MAY-1994; 94US-00245736.
XX	05-JUL-1994; 94US-00271280.
XX	15-AUG-1994; 94US-00251932.
XX	16-AUG-1994; 94US-00291433.
XX	17-AUG-1994; 94US-00292620.
XX	19-AUG-1994; 94US-00293520.
XX	02-SEP-1994; 94US-00300000.
XX	08-SEP-1994; 94US-00303039.
XX	23-SEP-1994; 94US-00311486.
XX	23-SEP-1994; 94US-00311749.
XX	28-SEP-1994; 94US-00314397.
XX	03-OCT-1994; 94US-00316771.
XX	07-OCT-1994; 94US-00319492.
XX	11-OCT-1994; 94US-00321993.
XX	04-NOV-1994; 94US-00334847.
XX	10-NOV-1994; 94US-00337608.
XX	28-NOV-1994; 94US-00345516.
XX	16-DEC-1994; 94US-00357577.
XX	23-DEC-1994; 94US-00363233.
XX	30-JAN-1995; 95US-00360734.
XX	(RIBO-) RIBOZYME PHARM INC.
XX	Stinchcomb DT, Chowrira B, Direnzo A, Draper KG, Dudycz LW;
XX	Grimm S, Karpaisky A, Kislich K, Matulic-Adamic J, Mcswiggen JA;
XX	Modak A, Ravco P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
XX	Tracz D, Usman N, Wincott FE, Woolf T;
XX	WPI; 1995-351090/45.
XX	Ribozymes having modified bases and methods for producing them - for use
XX	in inhibiting disease related genes.
XX	Claim 2; Page 202; 407pp; English.
XX	The present sequence represents a preferred target sequence for an
XX	enzymatic nucleic acid (i.e., a ribozyme) which cleaves ICAM-1 mRNA at the
XX	nucleotide base position indicated in the DE line. Regions of the mRNA
XX	that do not form secondary folding structures and that contain potential
XX	hammerhead and hairpin ribozyme cleavage sites were identified by
XX	computer analysis. Ribozymes directed against these mRNA sequences were
XX	designed and synthesised with modifications that improve their nuclease
XX	resistance. The ribozymes cleave the ICAM-1 target sequences and thereby
XX	inhibit ICAM-1 expression, making them useful for reducing transplant
XX	rejection and alleviating symptoms in patients with rheumatoid arthritis,
XX	asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to
XX	correct PI field.)
XX	Sequence 17 BP; 5 A; 3 C; 7 G; 0 T; 2 U; 0 Other;
XX	Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX	Best Local Similarity 73.3%; Pred. No. Se+02;
XX	Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
OY	56 AGAGGAGTCTCTCGA 70
DB	: :
	1 AGAGGGGUCUCAGCA 15

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RESULT 991
AAT06812/c
ID AAT06812 standard; DNA; 17 BP.
XX
AC AAT06812;
XX
DT 02-JUL-1996 (first entry)
XX
DE Probe A' (Set 9) for M. tuberculosis 16S rRNA gene nucleotides 721-760.
XX
KW probe; modified ligase chain reaction; Mycobacterium tuberculosis;
XX
KW M. avium; M. intracellulare; M. kansasii; detection; diagnosis; ss.
XX
OS Mycobacterium tuberculosis.
XX
PN WO9531571-A2.
XX
PD 23-NOV-1995.
XX
PF 04-MAY-1995; 95WO-US005816.
XX
PR 13-MAY-1994; 94US-00223330.
XX
PA (ABBO ) ABBOTT LAB.
XX
PI Kratochvil JD, Leckie GW, Odonnell DL, Solomon NA;
XX
WPI; 1996-010956/01.
XX
XX
PT New probes for detection of Mycobacterium species - derived from the 16S
PT ribosomal RNA gene, the protein antigen b gene and the 65 kD and 10 kD
PT heat shock protein genes of M.tuberculosis.
XX
PS Claim 2; Page 41; 60pp; English.
XX
CC Probe set 9 (AAT06811-814) were selected to detect a target sequence in
CC the 16S ribosomal RNA gene (nucleotides 721-760) of M. tuberculosis. The
CC probes were labelled with biotin and fluorescein. Set 9 as capable of
CC detecting target DNA from several species of bacteria of the genus
CC Mycobacterium. A modified ligase chain reaction was utilised which uses
CC two pairs of probes designated A, B (primary probes) and A', B'
CC (secondary probes). Probe pairs were directed to the same target strand
CC and ultimately ligated to one another after annealing to the target
CC strand. At least one of the probes of a pair had a modified end with
CC respect to the point of ligation. The modified end had bases omitted to
CC create a gap between one probe terminus and the next probe terminus when
CC the pair was annealed to the target sequence. Other modified ends include
CC a base mismatched with the target sequence. The presence of modified ends
CC reduced the falsely positive signal created by blunt-end ligation of the
CC complementary probe duplexes to one another in the absence of target.
CC "Correction" of the modification, in a target dependent manner, was
CC subsequently carried out to render the probes ligatable. Once ligated,
CC the fused (reorganised) probe was dissociated (e.g. melted) from the
CC target and, as with conventional LCR, the process was repeated for
CC several cycles
XX
SQ Sequence 17 BP; 2 A; 9 C; 4 G; 2 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 330 GCGGACGACCGGC 344
DB 15 GCGGCGGATCAGGC 1
RESULT 992
AAT35286/c
ID AAT35286 standard; DNA; 17 BP.
XX
AC AAT35286;
XX

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XX 09-DEC-1996 (first entry)
DT
DE Chemokine receptor K5.5 primer K5-5D (sense).
XX
KW Chemokine receptor K5.5; MIP-1-alpha; RANTES; MCP-1; allergy; atheroma;
KW HIV; AIDS; graft rejection; stem cell; primer; ss.
XX
OS Synthetic.
XX
PN WO9623068-A1.
XX
PD 01-AUG-1996.
XX
PF 24-JAN-1996; 96WO-GB000143.
XX
PR 27-JAN-1995; 95GB-00001683.
XX
PA (GLAX ) GLAXO GROUP LTD.
XX
PI Wells TNC, Power CA;
XX
WPI; 1996-362692/36.
XX
PT Chemokine receptor which binds MIP-1-alpha, RANTES and/or MCP-1 - useful
PT in screening for agents to treat asthma, hay fever, eczema, allergies,
PT atopic dermatitis, rhinitis or conjunctivitis.
XX
PS Example; Fig 2; 47pp; English.
XX
CC A set of internal sequencing primers (AAT35281-91) were used to sequence
CC cDNA clone EI-C19 (see also AAT35277), which codes for chemokine receptor
CC K5.5 (AAR99274). They were designed on the basis of previous sequencing
CC results
XX
SQ Sequence 17 BP; 3 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 294 GTGAGGACCTGAGC 308
DB 15 GTCATGGACCTGAGC 1
RESULT 993
AAT06537/c
ID AAT06537 standard; DNA; 17 BP.
XX
AC AAT06537;
XX
DT 25-MAR-2003 (revised)
DT 02-JUL-1996 (first entry)
XX
DE Probe A' (Set 9) for M. tuberculosis 16S rRNA gene nucleotides 721-760.
XX
KW probe; modified ligase chain reaction; Mycobacterium tuberculosis;
KW M. avium; M. intracellulare; M. kansasii; detection; diagnosis; ss.
XX
OS Mycobacterium tuberculosis.
XX
PN WO9531570-A1.
XX
PD 23-NOV-1995.
XX
PF 04-MAY-1995; 95WO-US005602.
XX
PR 13-MAY-1994; 94US-00242403.
XX
PA (ABBO ) ABBOTT LAB.
XX
PI Leckie GW, Davis AH, Semplefacey IE, Manlove MT, Solomon NA;

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XX WPI; 1996-010955/01.  
 XX  
 XX  
 PT New probes for detection of M.tuberculosis - derived from e.g. the gene  
 PT coding for protein antigen b and from the insertion-like element IS6110  
 PT of M.tuberculosis.  
 XX  
 XX  
 XX Example 8; Page 41; 60pp; English.  
 PS  
 XX Probe set 9 (AAT06536-539) were selected to detect a target sequence in  
 CC the 16S ribosomal RNA gene (nucleotides 721-760) of M. tuberculosis. The  
 CC probes were labelled with biotin and fluorescein. Set 9 as capable of  
 CC detecting target DNA from several species of bacteria of the genus  
 CC Mycobacterium. A modified ligase chain reaction was utilised which uses  
 CC two pairs of probes designated A, B (primary probes) and A', B'  
 CC (secondary probes). Probe pairs were directed to the same target strand  
 CC and ultimately ligated to one another after annealing to the target  
 CC strand. At least one of the probes of a pair had a modified end with  
 CC respect to the point of ligation. The modified end had bases omitted to  
 CC create a gap between one probe terminus and the next probe terminus when  
 CC the pair was annealed to the target sequence. Other modified ends include  
 CC a base mismatched with the target sequence. The presence of modified ends  
 CC reduced the falsely positive signal created by blunt-end ligation of the  
 CC complementary probe duplexes to one another in the absence of target.  
 CC "Correction" of the modification, in a target dependent manner, was  
 CC subsequently carried out to render the probes ligatable. Once ligated,  
 CC the fused (reorganised) probe was dissociated (e.g. melted) from the  
 CC target and, as with conventional LCR, the process was repeated for  
 CC several cycles. (Updated on 25-MAR-2003 to correct PI field.)  
 XX  
 XX Sequence 17 BP; 2 A; 9 C; 4 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 330 GCGGACGACCGCGGC 344  
 DB 15 GCGGCGCATCGGC 1  
 RESULT 994  
 AAT62817  
 ID AAT62817 standard; DNA; 17 BP.  
 AC  
 AC AAT62817;  
 XX  
 DT 18-NOV-1997 (first entry)  
 XX  
 DE Primer MGHRI for murine growth hormone cDNA.  
 XX  
 XX Primer; polymerase chain reaction; PCR; amplification; murine; mouse;  
 KW growth hormone; transformation; stem cell; mammal; transformed organism;  
 KW increased growth; continuous expression; improvement; body weight;  
 KW milk production; ss.  
 XX  
 OS Synthetic.  
 XX  
 XX WO9708947-A1.  
 PN  
 XX  
 XX 13-MAR-1997.  
 PD  
 XX  
 XX 28-AUG-1996; 96WO-JP002402.  
 PF  
 XX  
 XX 08-SEP-1995; 95JP-00231086.  
 PR  
 XX  
 XX (TAKI ) TAKARA SHUZO CO LTD.  
 PA  
 XX Okado T, Zhang Y, Matsushita H, Asada K, Kato I;  
 PI  
 XX WPI; 1997-192587/17.  
 DR  
 XX  
 XX Organisms transformed by growth hormone gene - for producing higher body

PT weight, faster growing specimens.  
 XX  
 PS Example 1; Page 22; 39pp; Japanese.  
 XX  
 CC The present sequence is a primer for the PCR amplification of murine  
 CC growth hormone (mGH) cDNA, which was used to transform a stem cell, which  
 CC in turn was introduced into an organism to produce a transformed  
 CC organism. The transformed organism exhibits increased growth, and as the  
 CC growth hormone gene is expressed continuously, it can be grown very  
 CC quickly. The resulting organism, specifically a mammal, shows improved  
 CC body weight and milk production  
 XX  
 XX Sequence 17 BP; 4 A; 3 C; 10 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 272 GGAGCAGCGCGGCAC 286  
 DB 1 GGGGCGAGGAGGCAC 15  
 RESULT 995  
 AAX68713/c  
 ID AAX68713 standard; RNA; 17 BP.  
 XX  
 XX AAX68713;  
 AC  
 XX  
 DT 28-JUL-1999 (first entry)  
 XX  
 DE Human flt1 VEGF receptor hammerhead ribozyme substrate #8.  
 XX  
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9715662-A2.  
 XX  
 PD 01-MAY-1997.  
 XX  
 XX 25-OCT-1996; 96WO-US017480.  
 PF  
 XX  
 XX 26-OCT-1995; 95US-0005974P.  
 PR  
 XX 11-JAN-1996; 96US-00584040.  
 PR  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA  
 PA (CHIR ) CHIRON CORP.  
 XX  
 XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
 PI  
 XX WPI; 1997-259017/23.  
 DR  
 XX  
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.  
 XX  
 PS Claim 4; Page 46; 218pp; English.  
 XX  
 CC The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention

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XX SQ Sequence 17 BP; 1 A; 5 C; 9 G; 0 T; 2 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 299 GGACCTGAGCCCGG 313
Db 15 GCACCGGAGCCCGG 1

RESULT 996
AAK69246/c
ID AAK69246 standard; RNA; 17 BP.
XX AC AAK69246;
XX DT 28-JUL-1999 (first entry)
XX DE Human flt1 VEGF receptor hammerhead ribozyme substrate #541.
XX KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
XX KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
XX KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
XX KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
XX KW foetal liver kinase 1; ss.
XX OS Homo sapiens.
XX PN WO9715662-A2.
XX DT 28-JUL-1999 (first entry)
XX DE Human flt1 VEGF receptor hammerhead ribozyme substrate #541.
XX KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
XX KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
XX KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
XX KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
XX KW foetal liver kinase 1; ss.
XX OS Homo sapiens.
XX PN WO9715662-A2.
XX DT 01-MAY-1997.
XX DE 25-OCT-1996; 96WO-US017480.
XX PF 26-OCT-1995; 95US-0005974P.
XX PR 11-JAN-1996; 96US-00584040.
XX XX (RIBO-) RIBOZYME PHARM INC.
XX PA (CHIR ) CHIRON CORP.
XX PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX DR 25-OCT-1996; 96WO-US017480.
XX PF 26-OCT-1995; 95US-0005974P.
XX PR 11-JAN-1996; 96US-00584040.
XX XX (RIBO-) RIBOZYME PHARM INC.
XX PA (CHIR ) CHIRON CORP.
XX PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX DR Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
XX PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
XX PT rheumatoid arthritis, etc., in a human patient.
XX PS Claim 4; Page 63; 218pp; English.
XX CC The present invention describes nucleic acid molecules which modulate the
XX CC synthesis, expression and/or stability of a mRNA encoding 1 or more
XX CC receptors of vascular endothelial growth factor (VEGF). A patient
XX CC (preferably human) having a condition associated with the level of the
XX CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
XX CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
XX CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
XX CC treated by administering the nucleic acid molecule or the expression
XX CC vector to the patient. AAK67275 to AAX75752 represent specific examples
XX CC of nucleic acid molecules from the present invention
XX SQ Sequence 17 BP; 1 A; 5 C; 9 G; 0 T; 2 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 247 TCCCGGCTCGGCA 261
Db 17 TCCCGGCAAGGCCA 3

RESULT 997
AAK68723/c
ID AAK68723 standard; RNA; 17 BP.
XX AC AAK68723;
XX DT 28-JUL-1999 (first entry)
XX DE Human flt1 VEGF receptor hammerhead ribozyme substrate #18.
XX KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;
XX KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;
XX KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;
XX KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;
XX KW foetal liver kinase 1; ss.
XX OS Homo sapiens.
XX PN WO9715662-A2.
XX DT 01-MAY-1997.
XX DE 25-OCT-1996; 96WO-US017480.
XX PF 26-OCT-1995; 95US-0005974P.
XX PR 11-JAN-1996; 96US-00584040.
XX XX (RIBO-) RIBOZYME PHARM INC.
XX PA (CHIR ) CHIRON CORP.
XX PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;
XX WPI; 1997-259017/23.
XX DR Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA
XX PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,
XX PT rheumatoid arthritis, etc., in a human patient.
XX PS Claim 4; Page 47; 218pp; English.
XX CC The present invention describes nucleic acid molecules which modulate the
XX CC synthesis, expression and/or stability of a mRNA encoding 1 or more
XX CC receptors of vascular endothelial growth factor (VEGF). A patient
XX CC (preferably human) having a condition associated with the level of the
XX CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing
XX CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour
XX CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be
XX CC treated by administering the nucleic acid molecule or the expression
XX CC vector to the patient. AAK67275 to AAX75752 represent specific examples
XX CC of nucleic acid molecules from the present invention
XX SQ Sequence 17 BP; 1 A; 5 C; 9 G; 0 T; 2 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 411 GTGATCGAGCGCG 425
Db 17 GTGAGCGGAGCGCG 3

RESULT 998
AAK74473/c
ID AAK74473 standard; RNA; 17 BP.
XX AC AAK74473;
XX DT 28-JUL-1999 (first entry)
XX DE Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #1.
XX
```

KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.

XX Mus sp.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR ) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

XX WPI; 1997-259017/23.

XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.

XX Claim 4; Page 155; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention

XX Sequence 17 BP; 1 A; 7 C; 5 G; 0 T; 4 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 411 GTGATCGAGCGCG 425

Db 17 GTGAGCAAGCGCG 3

RESULT 999

AAX69044

ID AAX69044 standard; RNA; 17 BP.

XX AAX69044;

XX 28-JUL-1999 (first entry)

XX Human flt1 VEGF receptor hammerhead ribozyme substrate #339.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.

XX Homo sapiens.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR ) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

XX WPI; 1997-259017/23.

XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.

XX Claim 4; Page 56; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention

XX Sequence 17 BP; 6 A; 4 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 73.3%; Pred. No. 5e+02;

Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 43 ATGCCCACTCTCAG 57

Db 1 AUGGCCAUCACUAG 15

RESULT 1000

AAX74474/C

ID AAX74474 standard; RNA; 17 BP.

XX AAX74474;

XX 28-JUL-1999 (first entry)

XX Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #2.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.

XX Mus sp.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00584040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR ) CHIRON CORP.

XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

DR WPI; 1997-259017/23.  
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.  
 XX  
 PS Claim 4; Page 155; 21pp; English.  
 XX  
 CC The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient  
 CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 17 BP; 2 A; 8 C; 3 G; 0 T; 4 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. NO. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 411 GTGATCGAGCGCG 425  
 Db 15 GTGAGCAAGCGCG 1  
 RESULT 1001  
 ID AAT76176 standard; DNA; 17 BP.  
 XX  
 AC AAT76176;  
 XX  
 DT 12-SEP-1997 (first entry)  
 XX  
 DE Human IL3 receptor antisense oligonucleotide.  
 XX  
 KW Asthma; airway epithelium; adenosine free; cystic fibrosis;  
 KW chronic obstructive pulmonary disease; bronchitis; interleukin; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9640162-A1.  
 XX  
 PD 19-DEC-1996.  
 XX  
 PF 06-JUN-1996; 96WO-US009306.  
 XX  
 PR 07-JUN-1995; 95US-00474497.  
 XX  
 PA (UYEC-) UNIV EAST CAROLINA.  
 XX  
 PI Nyce JW, Metzger WJ;  
 XX  
 DR WPI; 1997-051871/05.  
 XX  
 PT Treatment of airway diseases such as asthma - by topically applying  
 PT adenosine-free antisense oligo:nucleotide to airway epithelium of  
 PT subject.  
 XX  
 PS Example 5; Page 29; 71pp; English.  
 XX  
 CC A method for treating airway disease in a subject has been produced,  
 CC which involves the topical administration of an essentially adenosine  
 CC free antisense oligonucleotide (ON) to the airway epithelium of the  
 CC subject. The present sequence is an antisense oligonucleotide specific  
 CC for the human IL3 receptor. The method can be used to treat airway  
 CC diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary  
 CC disease, bronchitis and other airway diseases characterised by an  
 CC inflammatory response. By eliminating adenosine from the antisense ON,

CC its liberation upon antisense degradation is prevented, thereby  
 CC preventing adenosine-induced bronchoconstriction in patients with hyper-  
 CC reactive airways  
 XX  
 SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. NO. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 242 CTGCTTCCCGGGCTC 256  
 Db 1 CTCTTTCCTCGGGCTC 15  
 RESULT 1002  
 ID AAA22825 standard; RNA; 17 BP.  
 XX  
 AC AAA22825;  
 XX  
 DT 19-JUN-2000 (first entry)  
 XX  
 DE Integrin subunit beta 3 substrate sequence SEQ ID NO:6051.  
 XX  
 KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytostatic; antidiabetic;  
 KW ophthalmologic; anti-inflammatory; anti-arthritic; antiposoriatic; ARMD;  
 KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
 KW age related macular degeneration; inflammation; neovascular glaucoma;  
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
 KW tubercous sclerosis; pot-wine stain; Sturge Weber syndrome;  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9950403-A2.  
 XX  
 PD 07-OCT-1999.  
 XX  
 PF 24-MAR-1999; 99WO-US006507.  
 XX  
 PR 27-MAR-1998; 98US-0079678P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
 XX  
 DR WPI; 1999-591315/50.  
 XX  
 PT Novel ribozymes for modulating the synthesis, expression and/or stability  
 PT of an mRNA encoding an angiogenic factors.  
 XX  
 PS Claim 54; Page 244; 305pp; English.  
 XX  
 CC The present invention describes enzymatic nucleic acid molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl  
 CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17623 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
 CC AAA21596 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT.

CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
CC especially used to treat cancer, diabetic retinopathy, age related  
CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
CC angiofibroma of tuberosus sclerosus, pot-wine stains, Sturge Weber  
CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
CC integrin subunit alpha-6, or integrin subunit beta-3  
XX  
SQ Sequence 17 BP; 0 A; 8 C; 4 G; 0 T; 5 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 66.7%; Pred. No. 5e+02;  
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
  
QY 242 CTGCTTCGGGCTC 256  
DB 3 CGGCUUCCGGGUUC 17  
  
RESULT 1003  
AAA22832/C  
ID AAA22832 standard; RNA; 17 BP.  
XX AAA22832;  
DT 19-JUN-2000 (first entry)  
DE Integrin subunit beta 3 substrate sequence SEQ ID NO:6058.  
XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
KW age related macular degeneration; inflammation; neovascular glaucoma;  
KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
KW tuberosus sclerosus; pot-wine stain; Sturge Weber syndrome;  
KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
XX  
OS Homo sapiens.  
XX WO9950403-A2.  
PN 07-OCT-1999.  
PD 24-MAR-1999; 99WO-US006507.  
PF 27-MAR-1998; 98US-0079678P.  
PR (RIBO-) RIBOZYME PHARM INC.  
PA Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
PI WPI; 1999-591315/50.  
DR  
XX  
XX Claim 54; Page 245; 305pp; English.  
XX The present invention describes enzymatic nucleic acid molecules with RNA  
CC cleaving activity, which specifically cleave RNA encoded by an aryl  
CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
CC AAA17167 and AAA17560 and AAA17623 to AAA17684 represent their  
CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
CC AAA21596 to AAA21688 represent their corresponding target sequences;

CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequence  
CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
CC AAA23422 represent their corresponding target sequences. The ribozymes of  
CC the invention are used for modulating the synthesis, expression and/or  
CC stability of an mRNA encoding angiogenic factor especially ARNT.  
CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
CC especially used to treat cancer, diabetic retinopathy, age related  
CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
CC angiofibroma of tuberosus sclerosus, pot-wine stains, Sturge Weber  
CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
CC integrin subunit alpha-6, or integrin subunit beta-3  
XX  
SQ Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 230 CAATCGGAGGCTG 244  
DB 17 CTACTCGGAGGCTG 3  
  
RESULT 1004  
AAA21483/C  
ID AAA21483 standard; RNA; 17 BP.  
XX AAA21483;  
DT 19-JUN-2000 (first entry)  
DE Integrin alpha 6 subunit substrate sequence SEQ ID NO:4709.  
XX Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
KW age related macular degeneration; inflammation; neovascular glaucoma;  
KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
KW tuberosus sclerosus; pot-wine stain; Sturge Weber syndrome;  
KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
XX  
OS Homo sapiens.  
XX WO9950403-A2.  
PN 07-OCT-1999.  
PD 24-MAR-1999; 99WO-US006507.  
PF 27-MAR-1998; 98US-0079678P.  
PR (RIBO-) RIBOZYME PHARM INC.  
PA Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
PI WPI; 1999-591315/50.  
DR  
XX  
XX Novel ribozymes for modulating the synthesis, expression and/or stability  
PT of an mRNA encoding an angiogenic factors.  
XX  
XX Claim 55; Page 211; 305pp; English.  
XX The present invention describes enzymatic nucleic acid molecules with RNA  
CC cleaving activity, which specifically cleave RNA encoded by an aryl  
CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
CC AAA21596 to AAA21688 represent their corresponding target sequences;

CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 CC  
 CC Sequence 17 BP; 6 A; 1 C; 4 G; 0 T; 6 U; 0 Other;  
 CC  
 CC Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 CC Best Local Similarity 86.7%; Pred. No. 5e+02;  
 CC Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 187 CACATATCCACTGCT 201  
 DB 15 CACATATCAATGCT 1  
 |||||

## RESULT 1005

AAA22734/C  
 ID AAA22734 standard; RNA; 17 BP.

AC AAA22734;  
 |||||

DT 19-JUN-2000 (first entry)

DE Integrin subunit beta 3 substrate sequence SEQ ID NO:5960.

KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
 KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
 KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
 KW ophthalmologic; antiinflammatory; antiarthritic; antipsoriatic; ARMD;  
 KW dermatological; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
 KW age related macular degeneration; inflammation; neovascular glaucoma;  
 KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
 KW tuberous sclerosis; pot-wine stain; Sturge Weber syndrome;  
 KW Kippel-Trenaunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.

OS Homo sapiens.

PN WO9950403-A2.

XX 07-OCT-1999.

PF 24-MAR-1999; 99WO-US006507.

PR 27-MAR-1998; 98US-0079678P.

PA (RIBO-) RIBOZYME PHARM INC.

PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Meswiggen JA;

XX WPI; 1999-591315/50.

XX Novel ribozymes for modulating the synthesis, expression and/or stability  
 PT of an mRNA encoding an angiogenic factors.

XX Claim 54; Page 239; 305pp; English.

CC The present invention describes enzymatic cleavage RNA molecules with RNA  
 CC cleaving activity, which specifically cleave RNA encoded by an aryl

CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
 CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
 CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
 CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
 CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
 CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
 CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
 CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
 CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
 CC AAA21596 to AAA21688 represent their corresponding target sequences;  
 CC AAA21689 to AAA22475 and AAA23263 to AAA23342 represent ribozyme sequences  
 CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
 CC AAA23422 represent their corresponding target sequences. The ribozymes of  
 CC the invention are used for modulating the synthesis, expression and/or  
 CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
 CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
 CC especially used to treat cancer, diabetic retinopathy, age related  
 CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
 CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
 CC angiofibroma of tuberous sclerosis, pot-wine stains, Sturge Weber  
 CC syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
 CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
 CC integrin subunit alpha-6, or integrin subunit beta-3  
 CC  
 CC Sequence 17 BP; 3 A; 7 C; 4 G; 0 T; 3 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 230 CAATCGGAGGCTG 244

DB 17 CTACTCGGAGGCTG 3  
 |||||

## RESULT 1006

AA53973

ID AA53973 standard; DNA; 17 BP.

XX AA53973;  
 |||||

AC AA53973;

DT 05-JUL-1999 (first entry)

DE Human IL-3 receptor antisense oligonucleotide fragment.

XX Antisense oligonucleotide; multiple target; antisense treatment;  
 KW impaired respiration; inflammation; lung disease;  
 KW pulmonary vasoconstriction; inflammation; allergic rhinitis;  
 KW acute asthma; allergy; asthma; impaired respiration;  
 KW respiratory distress syndrome; pain; cystic fibrosis;  
 KW pulmonary hypertension; pulmonary vasoconstriction; emphysema;  
 KW chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma;  
 KW colon cancer; breast cancer; lung cancer; pancreatic cancer;  
 KW hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;  
 KW prostate cancer; ss.

OS Synthetic.

PN WO9913886-A1.

XX 25-MAR-1999.

PF 17-SEP-1998; 98WO-US019419.

PR 17-SEP-1997; 97US-0059160P.

PR 09-JUN-1998; 98US-00093972.

PA (UYEC-) UNIV EAST CAROLINA.

XX Nyce JW;

XX WPI; 1999-229400/19.



PT New antisense oligonucleotides used in treatment of, e.g. pulmonary  
PT vasoconstriction.  
XX  
PS Disclosure; Page 48; 120pp; English.  
XX  
CC The specification describes antisense oligonucleotides (AA52869-X55271)  
CC directed against at least 2 mRNAs selected from target genes, coding and  
CC non-coding regions of RNAs corresponding to target genes, gene initiation  
CC codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'  
CC -end and the juxta-section between coding and non-coding regions and all  
CC segments of RNAs encoding proteins associated with one or more diseases,  
CC conditions or mixtures. The antisense oligonucleotides may be derived  
CC from sequences AA5272-74. These multiple target oligonucleotides  
CC (specifically AA5180-271) can be used for the antisense treatment of  
CC diseases and conditions. Typical diseases and conditions are those  
CC associated with impaired respiration and inflammation, including lung  
CC diseases, pulmonary vasoconstriction, inflammation, allergic rhinitis,  
CC acute asthma, allergies, asthma, impaired respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, pulmonary hypertension,  
CC pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary  
CC disease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g.  
CC colon cancer, breast cancer, lung cancer, pancreatic cancer,  
CC hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, as  
CC well as all types of cancers which may metastasize or have metastasized  
CC to the lungs, including breast and prostate cancer  
XX  
SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
Qy 242 CTGCTTCGCGGCTC 256  
Db 1 CTCCTTCGCGGCTC 15  
RESULT 1007  
AAV72257/C  
ID AAV72257 standard; DNA; 17 BP.  
XX  
AC AAV72257;  
XX  
DT 24-MAY-1999 (first entry)  
XX  
DE S. cerevisiae galactose metabolism gene promoter Gal4 binding site.  
XX  
KW Gal4 binding site; gene expression regulation; transgenic plant;  
KW chimeric; promoter; DNA binding domain; plant disease resistance;  
KW pest resistance; grain quality; oil composition; starch composition;  
KW protein composition; transcription factor; seed storage protein;  
KW multiple transgene regulation; tissue-specific promoter;  
KW developmentally regulated promoter; ss.  
XX  
OS Saccharomyces cerevisiae.  
XX  
PN WO9859062-A1.  
XX  
PD 30-DEC-1998.  
XX  
PF 23-JUN-1998; 98WO-US013006.  
XX  
PR 24-JUN-1997; 97US-00861687.  
XX  
PA (DUPO) DU PONT DE NEMOURS & CO E I.  
XX  
PI Liu Z, Odell JT;  
XX  
DR WPI; 1999-105629/09.  
XX  
PT Regulating gene expression in a stably transformed transgenic plant cell  
PT - useful for improving plant disease and pest resistance, and grain  
PT quality.

XX  
PS Disclosure; Page 31; 75pp; English.  
XX  
CC This sequence is used to describe a method for regulating gene expression  
CC in a stably transformed transgenic plant cell. The method comprises  
CC introducing two chimeric genes (5' to 3') into the plant cell genome. The  
CC first gene comprises a promoter operably linked to a Gal4 binding  
CC sequence and a coding sequence (including complementary sequences), which  
CC is itself linked to a polyadenylation signal sequence. The Gal4 sequence  
CC is located upstream of the promoter if a minimal promoter is used. The  
CC second chimeric gene comprises a promoter, and a DNA sequence encoding a  
CC DNA binding domain of Gal4 transcriptional activator, which is operably  
CC linked to a DNA sequence encoding a transcriptional activation domain.  
CC This sequence is itself operably linked to a polyadenylation signal  
CC sequence. The expression of the second chimeric gene regulates the  
CC expression of the first chimeric gene. The method is useful for improving  
CC plant disease and pest resistance, in addition to grain quality (e.g.  
CC Oil, starch or protein composition). The method (using the Gal4 chimeric  
CC transcription factor) achieves a higher level of expression when compared  
CC to the level using the highly expressed seed storage protein gene  
CC promoter. It also achieves activation of expression in grain, control of  
CC multiple transgene regulation, and amplification of the expression level  
CC while maintaining the expression pattern of a tissue-specific or  
CC developmentally regulated promoter  
XX  
SQ Sequence 17 BP; 1 A; 9 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
Qy 272 GGAGCAGCGCGGCAC 286  
Db 16 GGAGCAGCGCGGC 2  
RESULT 1008  
AAA33417  
ID AAA33417 standard; DNA; 17 BP.  
XX  
AC AAA33417;  
XX  
DT 28-JUL-2000 (first entry)  
XX  
DE Low adenosine antisense oligonucleotide SEQ ID NO:1106.  
XX  
KW Human; adenosine receptor; low adenosine antisense oligonucleotide;  
KW phosphorothioate; impaired respiration; inflammation; allergy;  
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;  
KW antiallergic; antiaschemic; cytostatic; analgesic; impaired airway;  
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;  
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;  
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;  
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200009525-A2.  
XX  
PD 24-FEB-2000.  
XX  
PF 03-AUG-1999; 99WO-US017712.  
XX  
PR 03-AUG-1998; 98US-0095212P.  
XX  
PA (UYEC-) UNIV EAST CAROLINA.  
XX  
PI Nyce JW;  
XX  
DR WPI; 2000-205971/18.  
XX  
PT New antisense oligonucleotides useful for treating e.g. pulmonary  
PT vasoconstriction, inflammation, allergies, asthma, hypertension,

PT bronchitis, emphysema, respiratory distress syndrome, ischemia or  
PT cancers.  
XX  
PS Claim 19; Page 403; 1343pp; English.  
XX  
CC The present invention describes a new composition comprising an antisense  
CC oligonucleotide (ON) with low adenosine (up to 15%), which targets  
CC nucleic acids involved in bronchoconstriction, allergies, and/or  
CC inflammation. The ON can have antiinflammatory, antiallergic,  
CC antiasthmatic, cytostatic and analgesic activities. The compositions are  
CC useful for the treatment of diseases associated with inflammation,  
CC impaired airways, including lung disease and diseases whose secondary  
CC effects afflict the lungs of a subject. They can be used for treating  
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies, asthma,  
CC impaired respiration, respiratory distress syndrome, pain, cystic  
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive  
CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,  
CC carcinomas, and cancers which may metastasise to the lungs, including  
CC breast and prostate cancer. The reduction of the adenosine content of the  
CC ONs reduces side effects. The A-containing ONs break down with the  
CC release of deoxyadenosine which activates adenosine receptors causing  
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the  
CC nucleotide sequences given in the sequence listing from the present  
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last 185  
CC sequences are also called SEQ ID NO:1 to 185, but the sequences differ  
CC from the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to  
CC AAA33992) are specifically claimed ONs from the present invention. N.B.  
CC Sequences given in the disclosure of the present invention do not match  
CC up with their corresponding SEQ ID NO: sequences given in the sequence  
CC listing  
XX  
SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
  
QY 242 CTGCTTCCCGGCTC 256  
Db 1 CTCTTCCCGGCTC 15  
  
RESULT 1009  
AAF19539  
ID AAF19539 standard; DNA; 17 BP.  
XX  
AC AAF19539;  
XX  
DT 14-MAR-2001 (first entry)  
XX  
DE Human IL3 receptor polynucleotide fragment #1106.  
XX  
KW Low adenosine antisense oligonucleotide; phosphorothioate; allergy;  
KW human; airway disorder; bronchoconstriction; lung inflammation;  
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;  
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;  
KW respiratory obstruction; pulmonary obstruction; impeded respiration;  
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;  
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;  
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;  
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;  
KW cancer; ss.  
XX  
OS Homo sapiens.  
XX  
FN WO200062736-A2.  
XX  
PD 26-OCT-2000.  
XX  
PF 24-MAR-2000; 2000WO-US008020.  
XX  
PR 06-APR-1999; 99US-0127958P.  
XX  
  
(UYEC-) UNIV EAST CAROLINA.  
(NYCE/) NYCE J.W.  
Nyce JW;  
WPI; 2000-679539/66.  
  
Low adenosine (A) content antisense oligonucleotides which do not trigger  
adenosine receptors during metabolism, useful e.g. for treating cancers  
and respiratory obstructions.  
  
Claim 14; Page 207; 1592pp; English.  
  
The present invention describes low adenosine (A) content antisense  
oligonucleotides and compositions (I) comprising them. In the antisense  
oligonucleotides the A is replaced by a 'universal' or alternative base.  
(I) can have respiratory, bronchodilator, antiinflammatory, analgesic,  
immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.  
The antisense oligonucleotides and (I) can be used to down-regulate the  
expression and/or activity of target polypeptides associated with  
lung/respiratory disorders and malignancies, such as stimulating and  
activating peptide factors and transmitters, transcription factors,  
immunoglobulins and antibodies, antibody receptors, cytokines and  
chemokines, endogenously produced specific and non-specific enzymes,  
binding proteins, adhesion molecules and their receptors, cytokine and  
chemokine receptors, adenosine receptors, bradykinin receptors, central  
nervous system (CNS) and peripheral nervous and non-nervous system peptide  
receptors, CNS and peripheral nervous and non-nervous system peptide  
transmitters, defensins, growth factors, vasoactive peptides and  
receptors, binding proteins and malignancy associated proteins. The  
antisense oligonucleotides may be used in this way to treat disorders  
including respiratory obstruction (especially pulmonary obstruction  
and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or  
surfactant hypoproduction which are associated with a disease or  
condition selected from pulmonary vasoconstriction, inflammation,  
allergies, asthma, impeded respiration, respiratory distress syndrome  
(RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary  
hypertension, emphysema, chronic obstructive pulmonary disease (COPD),  
pulmonary transplantation rejection, pulmonary infections, bronchitis,  
and/or cancer. AAF18434 to AAF21543 represent human polynucleotide  
fragments and antisense oligonucleotides used in the exemplification of  
the present invention  
XX  
SQ Sequence 17 BP; 0 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;  
  
QY 242 CTGCTTCCCGGCTC 256  
Db 1 CTCTTCCCGGCTC 15  
  
RESULT 1010  
AAA25624/c  
ID AAA25624 standard; DNA; 17 BP.  
XX  
AC AAA25624;  
XX  
DT 19-JUL-2000 (first entry)  
XX  
DE Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:2122.  
XX  
KW Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;  
KW hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;  
KW gene expression modification; cancer; phosphorothioate; endonuclease;  
KW anticancer; breast cancer; endometrium cancer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO9954459-A2.  
XX

PD 28-OCT-1999.  
 XX 19-APR-1999; 99WO-US008547.  
 XX 20-APR-1998; 98US-0082404P.  
 XX 23-JUN-1998; 98US-00103636.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;  
 XX Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;  
 XX Matulic-Adamic J;  
 XX WPI; 2000-013248/01.  
 XX New nucleic acids that interact, and optionally cleave, target sequences,  
 XX used to treat cancer.  
 XX Claim 77; Page 85; 148pp; English.  
 XX The present invention describes nucleic acids (A) that interact stably  
 XX with a target sequence and contain at least one phosphorodithioate  
 XX link, having endonuclease activity. (A), and more generally any catalytic  
 XX nucleic acid (A') that modulates expression of the oestrogen receptor  
 XX gene, are used to treat cancer (particularly of breast or endometrium),  
 XX in vivo or by transforming cells ex vivo and implanting treated cells, or  
 XX for other conditions associated with levels of oestrogen receptor.  
 XX Because of the high selectivity for targeted RNA, (A) can also be used to  
 XX correlate inhibition of gene expression with alterations in phenotype,  
 XX particularly for identification of therapeutic targets, and as research  
 XX reagents (for RNA, in the same way that restriction endonucleases are  
 XX used with DNA). The combination of modifications in (A) improves  
 XX resistance to nucleases, binding affinity and/or activity. AAA23503 to  
 XX AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and  
 XX AAA24748 to AAA25992 represent their corresponding target sequences.  
 XX AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme  
 XX sequences, and AAA26107 to AAA26218 represent their corresponding target  
 XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and  
 XX antisense oligonucleotides used in the exemplification of the present  
 XX invention  
 XX Sequence 17 BP; 1 A; 10 C; 1 G; 5 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;  
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 201 TCGGTCAAGCAGAG 215  
 DB 16 TCGGGGAAGCAGAG 2  
 RESULT 1011  
 AAA24803/c  
 ID AAA24803 standard; DNA; 17 BP.  
 XX AAA24803;  
 XX 19-JUL-2000 (first entry)  
 XX Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1301.  
 XX Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;  
 XX hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;  
 XX gene expression modification; cancer; phosphorothioate; endonuclease;  
 XX anticancer; breast cancer; endometrium cancer; ss.  
 XX Homo sapiens.  
 XX WO9954459-A2.  
 XX 28-OCT-1999.  
 XX 19-APR-1999; 99WO-US008547.  
 XX

PF 19-APR-1999; 99WO-US008547.  
 XX 20-APR-1998; 98US-0082404P.  
 XX 23-JUN-1998; 98US-00103636.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;  
 XX Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;  
 XX Matulic-Adamic J;  
 XX WPI; 2000-013248/01.  
 XX New nucleic acids that interact, and optionally cleave, target sequences,  
 XX used to treat cancer.  
 XX Claim 77; Page 58; 148pp; English.  
 XX The present invention describes nucleic acids (A) that interact stably  
 XX with a target sequence and contain at least one phosphorodithioate  
 XX link, having endonuclease activity. (A), and more generally any catalytic  
 XX nucleic acid (A') that modulates expression of the oestrogen receptor  
 XX gene, are used to treat cancer (particularly of breast or endometrium),  
 XX in vivo or by transforming cells ex vivo and implanting treated cells, or  
 XX for other conditions associated with levels of oestrogen receptor.  
 XX Because of the high selectivity for targeted RNA, (A) can also be used to  
 XX correlate inhibition of gene expression with alterations in phenotype,  
 XX particularly for identification of therapeutic targets, and as research  
 XX reagents (for RNA, in the same way that restriction endonucleases are  
 XX used with DNA). The combination of modifications in (A) improves  
 XX resistance to nucleases, binding affinity and/or activity. AAA23503 to  
 XX AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and  
 XX AAA24748 to AAA25992 represent their corresponding target sequences.  
 XX AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme  
 XX sequences, and AAA26107 to AAA26218 represent their corresponding target  
 XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and  
 XX antisense oligonucleotides used in the exemplification of the present  
 XX invention  
 XX Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;  
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 215 GAACTCGGTGGCGGC 229  
 DB 16 GAACTCGGTGGCGGC 2  
 RESULT 1012  
 AAA24804  
 ID AAA24804 standard; DNA; 17 BP.  
 XX AAA24804;  
 XX 19-JUL-2000 (first entry)  
 XX Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:1302.  
 XX Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage;  
 XX hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;  
 XX gene expression modification; cancer; phosphorothioate; endonuclease;  
 XX anticancer; breast cancer; endometrium cancer; ss.  
 XX Homo sapiens.  
 XX WO9954459-A2.  
 XX 28-OCT-1999.  
 XX 19-APR-1999; 99WO-US008547.  
 XX

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PR 20-APR-1998; 98US-0082404P.
PR 23-JUN-1998; 98US-00103636.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;
PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;
PI Matulic-Adamic J;
XX DR WPI; 2000-013248/01.
XX PT New nucleic acids that interact, and optionally cleave, target sequences,
XX used to treat cancer.
XX PS Claim 77; Page 58; 148pp; English.
XX CC The present invention describes nucleic acids (A) that interact stably
XX with a target sequence and contain at least one phosphorodithioate
XX link, having endonuclease activity. (A), and more generally any catalytic
XX nucleic acid (A') that modulates expression of the oestrogen receptor
XX gene, are used to treat cancer (particularly of breast or endometrium),
XX in vivo or by transforming cells ex vivo and implanting treated cells, or
XX for other conditions associated with levels of oestrogen receptor.
XX Because of the high selectivity for targeted RNA, (A) can also be used to
XX correlate inhibition of gene expression with alterations in phenotype,
XX particularly for identification of therapeutic targets, and as research
XX reagents (for RNA, in the same way that restriction endonucleases are
XX used with DNA). The combination of modifications in (A) improves
XX resistance to nucleases, binding affinity and/or activity. AAA23503 to
XX AAA24748 represent oestrogen receptor hammerhead ribozyme sequences, and
XX AAA25993 to AAA26105 represent their corresponding target sequences.
XX AAA24748 to AAA25992 represent oestrogen receptor hairpin ribozyme
XX sequences, and AAA26107 to AAA26218 represent their corresponding target
XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and
XX antisense oligonucleotides used in the exemplification of the present
XX invention.
XX SQ Sequence 17 BP; 4 A; 6 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 173 CTACGAGTCCAGGC 187
DB 1 CTACGAGTCCAGGC 15
RESULT 1013
AAA25625/c
ID AAA25625 standard; DNA; 17 BP.
XX AC AAA25625;
XX DT 19-JUL-2000 (first entry)
XX DE Oestrogen receptor hammerhead ribozyme target sequence SEQ ID NO:2123.
XX KW Oestrogen receptor; c-ras; k-ras; bcl-2; ribozyme; cleavage;
XX hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;
XX gene expression modification; cancer; phosphorothioate; endonuclease;
XX anticancer; breast cancer; endometrium cancer; ss.
XX OS Homo sapiens.
XX PN WO9954459-A2.
XX XX WO9954459-A2.
XX PD 28-OCT-1999.
XX PF 19-APR-1999; 99WO-US008547.
XX PR 20-APR-1998; 98US-0082404P.
PR 23-JUN-1998; 98US-00103636.

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XX PA (RIBO-) RIBOZYME PHARM INC.
XX Thompson JD, Beigelman L, Mcswiggen JA, Karpeisky A, Bellon L;
PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haerberli P;
PI Matulic-Adamic J;
XX DR WPI; 2000-013248/01.
XX PT New nucleic acids that interact, and optionally cleave, target sequences,
XX used to treat cancer.
XX PS Claim 77; Page 85; 148pp; English.
XX CC The present invention describes nucleic acids (A) that interact stably
XX with a target sequence and contain at least one phosphorodithioate
XX link, having endonuclease activity. (A), and more generally any catalytic
XX nucleic acid (A') that modulates expression of the oestrogen receptor
XX gene, are used to treat cancer (particularly of breast or endometrium),
XX in vivo or by transforming cells ex vivo and implanting treated cells, or
XX for other conditions associated with levels of oestrogen receptor.
XX Because of the high selectivity for targeted RNA, (A) can also be used to
XX correlate inhibition of gene expression with alterations in phenotype,
XX particularly for identification of therapeutic targets, and as research
XX reagents (for RNA, in the same way that restriction endonucleases are
XX used with DNA). The combination of modifications in (A) improves
XX resistance to nucleases, binding affinity and/or activity. AAA23503 to
XX AAA24748 represent oestrogen receptor hammerhead ribozyme sequences, and
XX AAA25993 to AAA26105 represent their corresponding target sequences.
XX AAA24748 to AAA25992 represent oestrogen receptor hairpin ribozyme
XX sequences, and AAA26107 to AAA26218 represent their corresponding target
XX sequences. AAA26219 to AAA26271 represent other ribozyme sequences and
XX antisense oligonucleotides used in the exemplification of the present
XX invention.
XX SQ Sequence 17 BP; 1 A; 9 C; 1 G; 6 T; 0 U; 0 Other;
Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 201 TCGGTGAAGCAGAG 215
DB 15 TCGGTGAAGCAGAG 1
RESULT 1014
AAC70195
ID AAC70195 standard; DNA; 17 BP.
XX AC AAC70195;
XX DT 09-FEB-2001 (first entry)
XX DE Single nucleotide polymorphism PCR primer #17.
XX KW Single nucleotide polymorphism; SNP; human; genetic disease;
XX disease susceptibility; cardiovascular system; endocrine system;
XX neurological system; forensic testing; paternity testing; PCR primer; ss.
XX OS Homo sapiens.
XX PN WO200058519-A2.
XX XX WO200058519-A2.
XX PD 05-OCT-2000.
XX PF 30-MAR-2000; 2000WO-US008440.
XX PR 31-MAR-1999; 99US-0127248P.
XX PA (WHEAT ) WHITEHEAD INST BIOMEDICAL RES.
XX PA (AFFY-) AFFYMETRIX INC.
XX

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PI Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;  
 PI Lipschutz RJ, Patil N, Sklar P;  
 XX WPI; 2000-611722/58.  
 XX Nucleic acid selected from one of 106 genes comprising single nucleotide  
 PT polymorphisms, allele-specific oligonucleotides to the genes are useful  
 PT for phenotypic correlations, forensics, paternity testing, medicine and  
 PT genetic analysis.  
 XX Claim 8; Fig 5; 214pp; English.  
 XX The present invention is concerned with a number of human single  
 CC nucleotide polymorphisms (SNPs) which the inventors identified in human  
 CC genes. These SNPs can be used in disease diagnosis and prediction of an  
 CC individual's susceptibility to disease, in forensic and paternity testing  
 CC and in genetic mapping. In particular, the SNPs of the invention can be  
 CC used to diagnose susceptibility to diseases of the cardiovascular,  
 CC endocrine and neurological systems, such as coronary artery disease,  
 CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's  
 CC diseases  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Gaps 0;  
 Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 314 GGACCGCGTGGC 328  
 Db 3 GGACCGTGGTGGC 17  
 RESULT 1015  
 AAC70192  
 ID AAC70192 standard; DNA; 17 BP.  
 AC AAC70192;  
 XX 09-FEB-2001 (first entry)  
 DT  
 XX Single nucleotide polymorphism PCR primer #15.  
 DE Single nucleotide polymorphism; SNP; human; genetic disease;  
 XX disease susceptibility; cardiovascular system; endocrine system;  
 KW neurological system; forensic testing; paternity testing; PCR primer; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200058519-A2.  
 PN  
 XX 05-OCT-2000.  
 PD  
 XX 30-MAR-2000; 2000WC-US008440.  
 PP  
 XX 31-MAR-1999; 99US-0127248P.  
 PR (WHEED) WHITEHEAD INST BIOMEDICAL RES.  
 PA (AFFY-) AFFYMETRIX INC.  
 PA  
 XX Altshuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;  
 PI Lipschutz RJ, Patil N, Sklar P;  
 XX WPI; 2000-611722/58.  
 XX Nucleic acid selected from one of 106 genes comprising single nucleotide  
 PT polymorphisms, allele-specific oligonucleotides to the genes are useful  
 PT for phenotypic correlations, forensics, paternity testing, medicine and  
 PT genetic analysis.  
 XX Claim 8; Fig 5; 214pp; English.  
 XX The present invention is concerned with a number of human single

CC nucleotide polymorphisms (SNPs) which the inventors identified in human  
 CC genes. These SNPs can be used in disease diagnosis and prediction of an  
 CC individual's susceptibility to disease, in forensic and paternity testing  
 CC and in genetic mapping. In particular, the SNPs of the invention can be  
 CC used to diagnose susceptibility to diseases of the cardiovascular,  
 CC endocrine and neurological systems, such as coronary artery disease,  
 CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's  
 CC diseases  
 XX  
 SQ Sequence 17 BP; 3 A; 4 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 0; Gaps 0;  
 Matches 13; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 314 GGACCGCGTGGC 328  
 Db 3 GGACCGTGGTGGC 17  
 RESULT 1016  
 AAF06942  
 ID AAF06942 standard; DNA; 17 BP.  
 XX AAF06942;  
 AC AAF06942;  
 XX 16-FEB-2001 (first entry)  
 DT  
 XX Hammerhead ribozyme substrate #3199.  
 DE  
 XX Ribozyme; erythropoietin; granulocyte colony stimulating factor;  
 KW interferon alpha; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200061729-A2.  
 PN  
 XX 19-OCT-2000.  
 PD  
 XX 11-APR-2000; 2000WO-US009721.  
 PP  
 XX 12-APR-1999; 99US-0129390P.  
 PR (RIBO-) RIBOZYME PHARM INC.  
 PA  
 XX Blatt L, Zwick M, Pavco P, Mcswiggen J;  
 PI WPI; 2000-647423/62.  
 XX Enzymatic and antisense nucleic acid inhibition of repressor genes,  
 PT useful for producing e.g. granulocyte colony stimulating factor protein,  
 PT interferon alpha and erythropoietin.  
 PT  
 XX Claim 54; Page 130; 164pp; English.  
 XX The present invention relates to enzymatic and antisense nucleic acid  
 CC molecules that act as inhibitors of the expression of repressor genes  
 CC encoding the TR2 Orphan receptor, EAP3/COUP-TF-1, the GATA transcription  
 CC factor gene, IRF-2 and/or the C/EBP Displacement protein (CDP).  
 CC Inhibition of the repressors removes prevents inhibition (and  
 CC consequently increases expression of) genes involved in the production of  
 CC erythropoietin, granulocyte colony stimulating factor protein and  
 CC interferon alpha  
 XX  
 SQ Sequence 17 BP; 6 A; 5 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 2; Indels 0;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 212 AGAGAACTCGGTGGC 226  
 Db 1 AGAGAACTCGGTGGC 15



XX The present invention relates to enzymatic and antisense nucleic acid  
CC molecules that act as inhibitors of the expression of repressor genes  
CC encoding the R2 Orphan receptor, EAK3/COUP-TF-1, the GATA transcription  
CC factor gene, IRF-2 and/or the CAAAT Displacement Protein (CDP).  
CC Inhibition of the repressors removes prevents inhibition (and  
CC consequently increases expression of) genes involved in the production of  
CC erythropoietin, granulocyte colony stimulating factor protein and  
CC interferon alpha  
XX  
SQ Sequence 17 BP; 1 A; 8 C; 4 G; 4 T; 0 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 348 CTGCTCTACAGGAC 362  
|||||  
DB 2 CTGCTCTCAGGCC 16  
  
RESULT 1020  
ABK00045/C  
ID ABK00045 standard; RNA; 17 BP.  
XX  
AC ABK00045;  
XX  
DT 12-MAR-2002 (first entry)  
XX  
DE Human NOGO Hammerhead Ribozyme #45.  
XX  
KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
KW DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;  
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
KW MCL; immunodeficiency; IMC; immune thrombocytopenia; stroke; dementia;  
KW inflammatory arthropathy; central nervous system injury;  
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
KW Parkinson's disease; ataxia; Huntington's disease;  
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX WO200159103-A2.  
XX  
XX 16-AUG-2001.  
XX  
XX 09-FEB-2001; 2001WO-US004273.  
XX  
XX 11-FEB-2000; 2000US-0181797P.  
XX  
XX 28-FEB-2000; 2000US-0185516P.  
XX  
XX 06-MAR-2000; 2000US-0187128P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (BLAT/) BLATT L.  
XX (MCSW/) MCSWIGGEN J.  
XX (CHOW/) CHOWRIRA B M.  
XX  
XX Blatt L, Mcswiggen J, Chowrira BM;  
XX  
XX WPI; 2001-607195/69.  
XX  
XX  
XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
XX constructs, which down regulate expression of a CD20 gene or neurite  
XX growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
XX central nervous system injury.  
XX  
XX Claim 88; Page 66; 200pp; English.

CC The invention relates to a nucleic acid molecule which down regulates  
CC expression of a CD20 gene and a nucleic acid molecule which down  
CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
CC an amberzyme (cleaving RNA with an NGN triplet), a zinczyme (cleaving RNA  
CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
CC the cell and treat a patient having a condition associated with the level  
CC of CD20. The treatment may further comprise the use of one or more  
CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
CC leukaemia, HIV human immunodeficiency virus associated NHL, mantle-cell  
CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
CC cell and treat a patient having a condition associated with the level of  
CC NOGO. The treatment may further comprise the use of one or more  
CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
CC treat central nervous system (CNS) injury and cerebrovascular accident  
CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
CC disease, muscular dystrophy, and/or other neurodegenerative disease  
CC states which respond to the modulation of NOGO expression. The present  
CC sequence is a hammerhead ribozyme of the invention  
XX  
SQ Sequence 17 BP; 0 A; 12 C; 2 G; 0 T; 3 U; 0 Other;  
  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 143 GCGGTGGAGCGCG 157  
|||||  
DB 16 GCGAGGGGAGGCGCG 2  
  
RESULT 1021  
ABK00895/C  
ID ABK00895 standard; RNA; 17 BP.  
XX  
AC ABK00895;  
XX  
DT 12-MAR-2002 (first entry)  
XX  
DE Human NOGO Inozyme #165.  
XX  
XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
KW DNazyme; inozyme; G-cleaver; amberzyme; zinczyme; lymphoma; leukaemia;  
KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
KW inflammatory arthropathy; central nervous system injury;  
KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
KW Parkinson's disease; ataxia; Huntington's disease;  
KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX WO200159103-A2.  
XX  
XX 16-AUG-2001.

PF 09-FEB-2001; 2001WO-US004273.  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX Claim 88; Page 80; 200pp; English.  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NIGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopenia, and inflammatory arthropathy. The NIGO-  
 CC targeting nucleic acid is used to cleave RNA of the NIGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NIGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NIGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NIGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NIGO expression. The present  
 CC sequence is an inozyme of the invention  
 XX Sequence 17 BP; 0 A; 12 C; 2 G; 0 T; 3 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 143 GCGCGTGGAGCGCG 157  
 Db 15 GGAGGGGAGGCGCG 1  
 RESULT 1022  
 ID ABK01170/c  
 XX ABK01170 standard; RNA; 17 BP.  
 AC ABK01170;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX

DE XX Human NIGO Inozyme #440.  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NIGO; hammerhead ribozyme;  
 KW DNzyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS WO200159103-A2.  
 PN 16-AUG-2001.  
 PD 09-FEB-2001; 2001WO-US004273.  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 WPI; 2001-607195/69.  
 Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 constructs, which down regulate expression of a CD20 gene or neurite  
 growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 central nervous system injury.  
 Claim 88; Page 85; 200pp; English.  
 The invention relates to a nucleic acid molecule which down regulates  
 expression of a CD20 gene and a nucleic acid molecule which down  
 regulates expression of a neurite growth inhibitor gene (NIGO). The  
 nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 DNzyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 the cell and treat a patient having a condition associated with the level  
 of CD20. The treatment may further comprise the use of one or more  
 therapies. In particular, the CD20 targeting nucleic acid may be used to  
 treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 immune thrombocytopenia, and inflammatory arthropathy. The NIGO-  
 targeting nucleic acid is used to cleave RNA of the NIGO gene in the  
 presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 nucleic acid may be contacted with a cell to reduce NIGO activity of the  
 cell and treat a patient having a condition associated with the level of  
 NIGO. The treatment may further comprise the use of one or more  
 therapies. In particular, the NIGO-targeting nucleic acid may be used to  
 treat central nervous system (CNS) injury and cerebrovascular accident  
 (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 disease, muscular dystrophy, and/or other neurodegenerative disease  
 states which respond to the modulation of NIGO expression. The present  
 sequence is an inozyme of the invention



CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention  
 XX  
 SQ Sequence 17 BP; 2 A; 7 C; 2 G; 0 T; 6 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;  
 Matches 13; Conservative 0; Mismatches 0; Gaps 0;  
 QY 286 CCAAGCTGGTGAAGG 300  
 Db 15 CAAAAGCTGGTGAAGG 1  
 RESULT 1023  
 ABK00894/c  
 ID ABK00894 standard; RNA; 17 BP.  
 XX  
 AC ABK00894;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Inozyme #164.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; nootropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hamsterhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberszyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 PF 09-FEB-2001; 2001WO-US0004273.  
 XX  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 XX (RISO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX  
 DR WPI; 2001-607195/59.  
 XX  
 PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 XX Claim 88; Page 80; 200pp; English.  
 PS  
 CC The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberszyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA

CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention  
 XX  
 SQ Sequence 17 BP; 0 A; 12 C; 3 G; 0 T; 2 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;  
 Matches 13; Conservative 0; Mismatches 0; Gaps 0;  
 QY 143 GCGGTGGAGGCCGG 157  
 Db 17 GGAGGGGGAGGCCGG 3  
 RESULT 1024  
 ABA77649  
 ID ABA77649 standard; DNA; 17 BP.  
 XX  
 AC ABA77649;  
 XX  
 DT 24-JAN-2002 (first entry)  
 XX  
 DE Beta globin mutation correcting oligonucleotide SEQ ID NO: 495.  
 XX  
 KW Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
 KW retinoblastoma; BRCA1; BRCA2; cystic fibrosis; cancer; Factor V;  
 KW cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
 KW adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
 KW haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MHL1; APOE;  
 KW mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
 KW familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
 KW UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
 KW Alzheimer's disease; cytostatic; antiskilling; antianaemic; haemostatic;  
 KW antileptic; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200173002-A2.  
 XX  
 PD 04-OCT-2001.  
 XX  
 PF 27-MAR-2001; 2001WO-US0009761.  
 XX  
 XX 27-MAR-2000; 2000US-0192176P.  
 PR 27-MAR-2000; 2000US-0192176P.  
 PR 01-JUN-2000; 2000US-0208538P.  
 PR 30-OCT-2000; 2000US-0244989P.  
 XX  
 XX (UYDE ) UNIV DELAWARE.  
 XX  
 XX Kmiec EB, Gamper HB, Rice MC;  
 PI

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XX DR WPI; 2001-639230/73.
XX PT Oligonucleotide for targeted alterations of genetic sequences and for
XX PT treating cystic fibrosis, comprises at least one mismatch and chemical
XX PT modification.
XX PS Claim 7; Page 73; 294pp; English.
XX CC The present invention provides single-stranded oligonucleotides which can
XX CC be used for the targeted alteration of genomic sequences, where the
XX CC oligonucleotide has at least one mismatch compared with the genomic
XX CC sequence to be altered. In particular, these sequences are directed at
XX CC the following genes: adenosine deaminase, p53, beta-globin,
XX CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX CC (CDKN2A), APC, Factor V, Factor VIII, Factor IX, haemoglobin alpha locus
XX CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX CC various syndromes. The present sequence is one of the gene correcting
XX CC oligonucleotides of the invention
XX SQ Sequence 17 BP; 3 A; 5 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 337 ACCAGGGCGGCTGC 351
DB ||||| |||||
2 ACCAGTGCAGGCTGC 16

RESULT 1025
ABA77650/c
ID ABA77650 standard; DNA; 17 BP.
AC ABA77650;
XX
XX
XX 24-JAN-2002 (first entry)
XX
XX Beta globin mutation correcting oligonucleotide SEQ ID NO: 496.
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
XX retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
XX haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
XX Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;
XX antileptic; ss.
XX
XX Homo sapiens.
XX OS
XX WO200173002-A2.
XX
XX 04-OCT-2001.
XX
XX 27-MAR-2001; 2001WO-US009761.
XX
XX 27-MAR-2000; 2000US-0192176P.
XX PR
XX 27-MAR-2000; 2000US-0192179P.
XX PR
XX 01-JUN-2000; 2000US-0208538P.
XX PR
XX 30-OCT-2000; 2000US-0244989P.
XX
XX (UYDE ) UNIV DELAWARE.
XX PA

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PI Kmiec EB, Camper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX PT treating cystic fibrosis, comprises at least one mismatch and chemical
XX PT modification.
XX PS Claim 7; Page 73; 294pp; English.
XX CC The present invention provides single-stranded oligonucleotides which can
XX CC be used for the targeted alteration of genomic sequences, where the
XX CC oligonucleotide has at least one mismatch compared with the genomic
XX CC sequence to be altered. In particular, these sequences are directed at
XX CC the following genes: adenosine deaminase, p53, beta-globin,
XX CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A
XX CC (CDKN2A), APC, Factor V, Factor VIII, Factor IX, haemoglobin alpha locus
XX CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
XX CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
XX CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and
XX CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
XX CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
XX CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,
XX CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
XX CC various syndromes. The present sequence is one of the gene correcting
XX CC oligonucleotides of the invention
XX SQ Sequence 17 BP; 2 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 5e+02;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 337 ACCAGGGCGGCTGC 351
DB ||||| |||||
16 ACCAGTGCAGGCTGC 2

RESULT 1026
ABA77645
ID ABA77645 standard; DNA; 17 BP.
XX
XX
XX ABA77645;
XX
XX 24-JAN-2002 (first entry)
XX
XX Beta globin mutation correcting oligonucleotide SEQ ID NO: 491.
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
XX retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
XX haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
XX Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;
XX antileptic; ss.
XX
XX Homo sapiens.
XX OS
XX WO200173002-A2.
XX
XX 04-OCT-2001.
XX
XX 27-MAR-2001; 2001WO-US009761.
XX
XX 27-MAR-2000; 2000US-0192176P.
XX PR
XX 27-MAR-2000; 2000US-0192179P.
XX PR
XX 01-JUN-2000; 2000US-0208538P.
XX PR
XX 30-OCT-2000; 2000US-0244989P.
XX
XX (UYDE ) UNIV DELAWARE.
XX PA

```

XX Kmiec EB, Gamper HB, Rice MC;  
PI WPI; 2001-639230/73.  
XX  
XX Oligonucleotide for targeted alterations of genetic sequences and for  
PT treating cystic fibrosis, comprises at least one mismatch and chemical  
PT modification.  
XX  
XX Claim 7; Page 73; 294pp; English.  
XX  
CC The present invention provides single-stranded oligonucleotides which can  
CC be used for the targeted alteration of genomic sequences, where the  
CC oligonucleotide has at least one mismatch compared with the genomic  
CC sequence to be altered. In particular, these sequences are directed at  
CC the following genes: adenosine deaminase, p53, beta-globin,  
CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
CC various syndromes. The present sequence is one of the gene correcting  
CC oligonucleotides of the invention  
XX  
XX Sequence 17 BP; 3 A; 6 C; 5 G; 3 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 337 ACCAGGCGCGCTGC 351  
DB 1 ACCAGTGCAGGCTGC 15  
RESULT 1027  
ABA77646/c  
ID ABA77646 standard; DNA; 17 BP.  
XX  
AC ABA77646;  
XX  
XX 24-JAN-2002 (first entry)  
XX  
XX Beta globin mutation correcting oligonucleotide SEQ ID NO: 492.  
XX  
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;  
XX retinoblastoma; BRCA1; BRCA2; CFTR; cystic fibrosis; cancer; Factor V;  
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;  
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;  
XX haemophilia; alpha thalassaemia; haemoglobin alpha locus 1; MLH1; APOE;  
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;  
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;  
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;  
XX Alzheimer's disease; cytostatic; antitickling; antianaemic; haemostatic;  
XX antiileptic; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200173002-A2.  
XX  
XX 04-OCT-2001.  
XX  
XX 27-MAR-2001; 2001WO-US005761.  
XX  
XX 27-MAR-2000; 2000US-0192176P.  
XX  
XX 27-MAR-2000; 2000US-0192179P.  
XX  
XX 01-JUN-2000; 2000US-0208538P.  
XX  
XX 30-OCT-2000; 2000US-0244989P.  
XX

PA (UYDE ) UNIV DELAWARE.  
XX Kmiec EB, Gamper HB, Rice MC;  
PI WPI; 2001-639230/73.  
XX  
XX Oligonucleotide for targeted alterations of genetic sequences and for  
PT treating cystic fibrosis, comprises at least one mismatch and chemical  
PT modification.  
XX  
XX Claim 7; Page 73; 294pp; English.  
XX  
CC The present invention provides single-stranded oligonucleotides which can  
CC be used for the targeted alteration of genomic sequences, where the  
CC oligonucleotide has at least one mismatch compared with the genomic  
CC sequence to be altered. In particular, these sequences are directed at  
CC the following genes: adenosine deaminase, p53, beta-globin,  
CC retinoblastoma, BRCA1, BRCA2, CFTR, cyclin-dependent kinase inhibitor 2A  
CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus  
CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase  
CC (UGT1), amyloid precursor protein (APC), presenilin-1 (PSEN1) and  
CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
CC haemophilia, hypercholesterolaemia, thalassaemia, sickle cell anaemia,  
CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
CC various syndromes. The present sequence is one of the gene correcting  
CC oligonucleotides of the invention  
XX  
XX Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 337 ACCAGGCGCGCTGC 351  
DB 17 ACCAGTGCAGGCTGC 3  
RESULT 1028  
AAH24022/c  
ID AAH24022 standard; DNA; 17 BP.  
XX  
AC AAH24022;  
XX  
XX 29-AUG-2001 (first entry)  
XX  
XX Yeast GAL1/GAL10 promoter UASgal site, SEQ ID NO:5.  
XX  
XX UASgal site; cis-acting transcription control element; Gal4; Gal3; Gal80;  
XX stochiometrically balanced expression; yeast;  
XX galactose-inducible expression; expression construct; promoter; GAL1;  
XX GAL10; ds.  
XX  
XX Saccharomyces cerevisiae.  
XX  
XX US6221630-B1.  
XX  
XX 24-APR-2001.  
XX  
XX 24-MAR-1999; 99US-00275680.  
XX  
XX 24-MAR-1999; 99US-00275680.  
XX  
XX (PENN-) PENN STATE RES FOUND.  
XX  
XX Hopper JE;  
XX  
XX WPI; 2001-307557/32.  
XX  
XX Expression construct for inducing and sustaining high level recombinant  
PT polypeptide production in yeast, comprises nucleic acids encoding a trans

PT -acting transcription factor, selectable marker and yeast origin of  
 PT replication.  
 PS Disclosure; Col 15; 22pp; English.  
 XX  
 CC The invention relates to high copy number expression constructs for high  
 CC level polypeptide expression in yeast. The yeast expression constructs  
 CC comprise a nucleic acid sequence encoding a set of trans-acting  
 CC transcription factors, a nucleic acid encoding a yeast selectable marker  
 CC providing an inefficiently or efficiently selected phenotype, a nucleic  
 CC acid encoding a yeast or bacterial origin of replication (ori), and a  
 CC unique restriction site downstream of a promoter containing a cis-acting  
 CC transcription control element that is regulated by the transcription  
 CC factors which are encoded by the expression construct. In a specific  
 CC embodiment of the invention, the expression construct provides for  
 CC galactose-inducible protein expression. Such constructs contain DNA  
 CC encoding the transcription factors Gal3, Gal4 and Gal80, and a UASgal cis  
 CC -acting control element within the promoter which drives expression of  
 CC the inserted gene of interest. The vector-encoded transcription factors  
 CC are expressed in stoichiometrically-balanced amounts, which is  
 CC particularly important for a galactose-inducible system, as Gal4, when  
 CC not balanced by stoichiometric levels of Gal3 and Gal80, becomes a  
 CC constitutive transcription factor, and can become toxic to the cell. The  
 CC constructs of the invention express the transcription factors at levels  
 CC higher than those found in native yeast cells, thereby ensuring  
 CC expression of the gene of interest. The expression constructs provide  
 CC robust, high level expression of a gene of interest (which can encode an  
 CC endogenous or heterologous polypeptide) in yeast. Sequences AAH24019-  
 CC AAH24035 represent actual UASgal sites found within the promoters of  
 CC various yeast galactose-inducible genes which may be used as the cis-  
 CC acting control element in a galactose-inducible expression construct of  
 CC the invention  
 XX  
 SQ Sequence 17 BP; 1 A; 9 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 272 GGAGCAGGCGGCAC 286  
 DB 16 GGAGCAGGCGGCAC 2  
 RESULT 1029  
 ABN06222/c  
 ID ABN06222 standard; DNA; 17 BP.  
 XX  
 AC ABN06222;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6214.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX  
 DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 XX or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 PT  
 XX Disclosure; SEQ ID NO 6214; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 5e+02;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 291 CTGCTGAAGGACCTG 305  
 DB 16 CTGCTGAAGGACCTG 2  
 RESULT 1030  
 ABN07566  
 ID ABN07566 standard; DNA; 17 BP.  
 XX  
 AC ABN07566;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7558.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200192524-A2.  
 XX

PD 06-DEC-2001.  
XX 25-MAY-2001; 2001WO-US016981.  
PF 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.  
XX 05-FEB-2001; 2001WO-US000670.  
XX 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX Disclosure; SEQ ID NO 7558; 214pp; English.  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterise and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX SQ Sequence 17 BP; 5 A; 3 C; 6 G; 3 T; 0 U; 0 Other;  
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;  
XX Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 385 ACAGCGGCGCCAGA 399  
Db 3 ATGACGGGCGCCAGA 17  
RESULT 1031  
ABN05995/c  
ID ABN05995 standard; DNA; 17 BP.  
XX AC ABN05995;  
XX DT 29-MAY-2002 (first entry)

XX DE  
XX KW Human; genome-derived myosin-like protein 1; hGDMPLP-1; heart;  
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX 26-MAY-2000; 2000US-0207456P.  
XX 21-SEP-2000; 2000US-0234687P.  
XX 27-SEP-2000; 2000US-0236359P.  
XX 04-OCT-2000; 2000GB-00024263.  
XX 30-JAN-2001; 2001WO-US000661.  
XX 30-JAN-2001; 2001WO-US000662.  
XX 30-JAN-2001; 2001WO-US000663.  
XX 30-JAN-2001; 2001WO-US000664.  
XX 30-JAN-2001; 2001WO-US000665.  
XX 30-JAN-2001; 2001WO-US000666.  
XX 30-JAN-2001; 2001WO-US000667.  
XX 30-JAN-2001; 2001WO-US000668.  
XX 30-JAN-2001; 2001WO-US000669.  
XX 05-FEB-2001; 2001WO-US000670.  
XX 05-FEB-2001; 2001US-0266860P.  
XX (AEOM-) AEOMICA INC.  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX or as specific biomolecule capture probes for surface-enhanced laser  
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX Disclosure; SEQ ID NO 5987; 214pp; English.  
XX The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX nucleic acids can be used as probes to detect, characterise and quantify  
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX protein variants having desired phenotypic improvements, and for  
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX -1 proteins, as standards in assays used to determine the concentration  
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX capture probes for surface-enhanced laser desorption ionisation, as  
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX production, and in vaccines or for replacement therapy. The  
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX disorder associated with the expression of hGDMPLP-1, in particular heart  
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX The present sequence represents an oligomer used in the screening of the  
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequence  
XX SQ Sequence 17 BP; 5 A; 2 C; 6 G; 4 T; 0 U; 0 Other;  
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;  
XX Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 355 ACAGCGACTTCTCA 369

CC The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO CC at ftp.wipo.int/pub/published\_pct\_sequence

XX SQ Sequence 17 BP; 1 A; 3 C; 10 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;

QY 16 TCGGGGTGACCGAGG 30  
DB 1 TCGGGGTGACCGTGG 15

RESULT 1032  
ABN07572  
ID ABN07572 standard; DNA; 17 BP.  
XX AC ABN07572;  
XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7564.  
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PR 21-SEP-2000; 2000US-0234687P.  
XX PR 27-SEP-2000; 2000US-0236359P.  
XX PR 04-OCT-2000; 2000GB-00024263.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000662.  
XX PR 30-JAN-2001; 2001WO-US000663.  
XX PR 30-JAN-2001; 2001WO-US000664.  
XX PR 30-JAN-2001; 2001WO-US000665.  
XX PR 30-JAN-2001; 2001WO-US000666.  
XX PR 30-JAN-2001; 2001WO-US000667.  
XX PR 30-JAN-2001; 2001WO-US000668.  
XX PR 30-JAN-2001; 2001WO-US000669.  
XX PR 30-JAN-2001; 2001WO-US000670.  
XX PR 05-FEB-2001; 2001US-0266860P.  
XX PA (AEOM-) AEOMICA INC.  
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX PT or as specific biomolecule capture probes for surface-enhanced laser  
XX PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX PS Disclosure; SEQ ID NO 10468; 214pp; English.  
XX CC The present invention describes a human genome-derived myosin-like  
XX CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX CC nucleic acids can be used as probes to detect, characterise and quantify  
XX CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX CC protein variants having desired phenotypic improvements, and for  
XX CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX CC -1 proteins, as standards in assays used to determine the concentration  
XX CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX CC capture probes for surface-enhanced laser desorption ionisation, as  
XX CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX CC production, and in vaccines or for replacement therapy. The  
XX CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX CC disorder associated with the expression of hGDMPLP-1, in particular heart  
XX CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX CC The present sequence represents an oligomer used in the screening of the  
XX CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.

CC The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO CC at ftp.wipo.int/pub/published\_pct\_sequence

XX SQ Sequence 17 BP; 1 A; 3 C; 10 G; 3 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 2;

QY 16 TCGGGGTGACCGAGG 30  
DB 1 TCGGGGTGACCGTGG 15

RESULT 1032  
ABN07572  
ID ABN07572 standard; DNA; 17 BP.  
XX AC ABN07572;  
XX DT 29-MAY-2002 (first entry)  
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:7564.  
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
XX KW skeletal muscle disorder; amplicon; screening; ss.  
XX OS Homo sapiens.  
XX PN WO200192524-A2.  
XX PD 06-DEC-2001.  
XX PF 25-MAY-2001; 2001WO-US016981.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PR 21-SEP-2000; 2000US-0234687P.  
XX PR 27-SEP-2000; 2000US-0236359P.  
XX PR 04-OCT-2000; 2000GB-00024263.  
XX PR 30-JAN-2001; 2001WO-US000661.  
XX PR 30-JAN-2001; 2001WO-US000662.  
XX PR 30-JAN-2001; 2001WO-US000663.  
XX PR 30-JAN-2001; 2001WO-US000664.  
XX PR 30-JAN-2001; 2001WO-US000665.  
XX PR 30-JAN-2001; 2001WO-US000666.  
XX PR 30-JAN-2001; 2001WO-US000667.  
XX PR 30-JAN-2001; 2001WO-US000668.  
XX PR 30-JAN-2001; 2001WO-US000669.  
XX PR 30-JAN-2001; 2001WO-US000670.  
XX PR 05-FEB-2001; 2001US-0266860P.  
XX PA (AEOM-) AEOMICA INC.  
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
XX PT or as specific biomolecule capture probes for surface-enhanced laser  
XX PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX PS Disclosure; SEQ ID NO 10468; 214pp; English.  
XX CC The present invention describes a human genome-derived myosin-like  
XX CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
XX CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
XX CC nucleic acids can be used as probes to detect, characterise and quantify  
XX CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
XX CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
XX CC protein variants having desired phenotypic improvements, and for  
XX CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
XX CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
XX CC -1 proteins, as standards in assays used to determine the concentration  
XX CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
XX CC capture probes for surface-enhanced laser desorption ionisation, as  
XX CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
XX CC production, and in vaccines or for replacement therapy. The  
XX CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
XX CC disorder associated with the expression of hGDMPLP-1, in particular heart  
XX CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
XX CC The present sequence represents an oligomer used in the screening of the  
XX CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.

used as immunogens to raise antibodies that specifically recognise hGDMPLP-1 proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMPLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption/ionisation, as therapeutic supplement in patients having specific deficiency in hGDMPLP-1 production, and in vaccines or for replacement therapy. The polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a disorder associated with the expression of hGDMPLP-1, in particular heart and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMPLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequence

XX Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 389 CGGCGCCCAAGAGGT 403

Db 1 CGGCGCCCAAGAGAT 15

RESULT 1034

ABN08151

ID ABN08151 standard; DNA; 17 BP.

AC ABN08151;

DT 29-MAY-2002 (first entry)

DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8143.

KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.

OS Homo sapiens.

XX WO200192524-A2.

PD 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000666.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 05-FEB-2001; 2001US-0266860P.

XX (AEOM-) AEOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WFI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption/ionization, comprises human myosin-like protein hGDMPLP-1.

XX Disclosure; SEQ ID NO 8143; 214pp; English.

PS The present invention describes a human genome-derived myosin-like  
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption/ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence

XX SQ Sequence 17 BP; 6 A; 3 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5e+02;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 265 TGCACCTGGAGCAGG 279

Db 3 TGCAGCTGGAGCAAG 17

RESULT 1035

ABN10475

ID ABN10475 standard; DNA; 17 BP.

AC ABN10475;

XX 29-MAY-2002 (first entry)

DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10467.

KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.

OS Homo sapiens.

XX WO200192524-A2.

PD 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

PR 30-JAN-2001; 2001WO-US000661.

PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.

PR 30-JAN-2001; 2001WO-US000664.

PR 30-JAN-2001; 2001WO-US000665.

PR 30-JAN-2001; 2001WO-US000666.

PR 30-JAN-2001; 2001WO-US000667.

PR 30-JAN-2001; 2001WO-US000668.

PR 30-JAN-2001; 2001WO-US000669.

PR 30-JAN-2001; 2001WO-US000670.

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PR 05-FEB-2001; 2001US-0266860P.
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 10467; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 1 A; 3 C; 9 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 16 TGC GG GTG ACC GAG G 30
XX |||||
XX Db 2 TGC GG GTG ACC GTG G 16
XX
XX RESULT 1036
XX ABN06001/c
XX ID ABN06001 standard; DNA; 17 BP.
XX AC ABN06001;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:5993.
XX
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX OS Homo sapiens.
XX
XX FN WO200192524-A2.
XX
XX PD 06-DEC-2001.
XX
XX PF 25-MAY-2001; 2001WO-US016981.
XX
XX PR 26-MAY-2000; 2000US-0207456P.
XX
XX PR 21-SEP-2000; 2000US-0234687P.
XX
XX PR 27-SEP-2000; 2000US-0236359P.

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PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption/ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 5993; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX of or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption/ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 5 A; 2 C; 7 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 351 CTCTACAGCGACTTC 365
XX |||||
XX Db 15 CTCTACATGGACTTC 1
XX
XX RESULT 1037
XX ABN08152
XX ID ABN08152 standard; DNA; 17 BP.
XX
XX AC ABN08152;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8144.
XX
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX

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OS Homo sapiens.  
 XX WO200192524-A2.  
 XX 06-DEC-2001.  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX 26-MAY-2000; 2000US-0207456P.  
 XX 21-SEP-2000; 2000US-0234687P.  
 XX 27-SEP-2000; 2000US-0236359P.  
 XX 04-OCT-2000; 2000GB-00024263.  
 XX 30-JAN-2001; 2001WO-US000661.  
 XX 30-JAN-2001; 2001WO-US000662.  
 XX 30-JAN-2001; 2001WO-US000663.  
 XX 30-JAN-2001; 2001WO-US000664.  
 XX 30-JAN-2001; 2001WO-US000665.  
 XX 30-JAN-2001; 2001WO-US000666.  
 XX 30-JAN-2001; 2001WO-US000667.  
 XX 30-JAN-2001; 2001WO-US000668.  
 XX 30-JAN-2001; 2001WO-US000669.  
 XX 05-FEB-2001; 2001US-0266860P.  
 XX (AEON-) AEOMICA INC.  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 XX or as specific biomolecule capture probes for surface-enhanced laser  
 XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX Disclosure; SEQ ID NO 8144; 214pp; English.  
 XX The present invention describes a human genome-derived myosin-like  
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 XX nucleic acids can be used as probes to detect, characterise and quantify  
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
 XX protein variants having desired phenotypic improvements, and for  
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 XX -1 proteins, as standards in assays used to determine the concentration  
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 XX capture probes for surface-enhanced laser desorption/ionisation, as  
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 XX production, and in vaccines or for replacement therapy. The  
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 XX disorder associated with the expression of hGDMPLP-1, in particular heart  
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 XX The present sequence represents an oligomer used in the screening of the  
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 XX The sequence data for this patent did not form part of the printed  
 XX specification, but was obtained in electronic format directly from WIPO  
 XX at ftp.wipo.int/pub/published\_pct\_sequence  
 XX Sequence 17 BP; 6 A; 3 C; 6 G; 2 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;  
 XX Best Local Similarity 86.7%; Pred. No. 5e+02;  
 XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 255 TGCACCTGGACGAGG 279  
 DB 2 TGCAGCTGGACGACG 16  
 RESULT 1038  
 ABN06469  
 ID ABN06469 standard; DNA; 17 BP.

XX AC  
 XX 29-MAY-2002 (first entry)  
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6461.  
 XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 XX skeletal muscle disorder; amplicon; screening; ss.  
 XX Homo sapiens.  
 XX WO200192524-A2.  
 XX 06-DEC-2001.  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX 26-MAY-2000; 2000US-0207456P.  
 XX 21-SEP-2000; 2000US-0234687P.  
 XX 27-SEP-2000; 2000US-0236359P.  
 XX 04-OCT-2000; 2000GB-00024263.  
 XX 30-JAN-2001; 2001WO-US000661.  
 XX 30-JAN-2001; 2001WO-US000662.  
 XX 30-JAN-2001; 2001WO-US000663.  
 XX 30-JAN-2001; 2001WO-US000664.  
 XX 30-JAN-2001; 2001WO-US000665.  
 XX 30-JAN-2001; 2001WO-US000666.  
 XX 30-JAN-2001; 2001WO-US000667.  
 XX 30-JAN-2001; 2001WO-US000668.  
 XX 30-JAN-2001; 2001WO-US000669.  
 XX 05-FEB-2001; 2001US-0266860P.  
 XX (AEOM-) AEOMICA INC.  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 XX or as specific biomolecule capture probes for surface-enhanced laser  
 XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX Disclosure; SEQ ID NO 6461; 214pp; English.  
 XX The present invention describes a human genome-derived myosin-like  
 XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 XX nucleic acids can be used as probes to detect, characterise and quantify  
 XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 XX provide initial substrates for the recombinant engineering of hGDMPLP-1  
 XX protein variants having desired phenotypic improvements, and for  
 XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 XX used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 XX -1 proteins, as standards in assays used to determine the concentration  
 XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 XX capture probes for surface-enhanced laser desorption/ionisation, as  
 XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 XX production, and in vaccines or for replacement therapy. The  
 XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 XX disorder associated with the expression of hGDMPLP-1, in particular heart  
 XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 XX The present sequence represents an oligomer used in the screening of the  
 XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 XX The sequence data for this patent did not form part of the printed  
 XX specification, but was obtained in electronic format directly from WIPO  
 XX at ftp.wipo.int/pub/published\_pct\_sequence  
 XX Sequence 17 BP; 2 A; 5 C; 3 G; 7 T; 0 U; 0 Other;  
 XX Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02; Mismatches 0; Indels 2; Gaps 0;  
 Matches 13; Conservative 0; Mismatches 0; Indels 2; Gaps 0;

QY 191 TATCCACTGCTCGGT 205  
 DB 3 TATCCACTGCTCGGT 17

RESULT 1039  
 ABN06223/c  
 ID ABN06223 standard; DNA; 17 BP.  
 XX AC ABN06223;  
 XX DT 29-MAY-2002 (first entry)  
 XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6215.  
 XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX OS Homo sapiens.  
 XX PN WO200192524-A2.  
 XX PD 06-DEC-2001.  
 XX PF 25-MAY-2001; 2001WO-US016981.  
 XX PR 26-MAY-2000; 2000US-0207456P.  
 XX PR 21-SEP-2000; 2000US-0234687P.  
 XX PR 27-SEP-2000; 2000US-0236359P.  
 XX PR 04-OCT-2000; 2000GB-00024263.  
 XX PR 30-JAN-2001; 2001WO-US000661.  
 XX PR 30-JAN-2001; 2001WO-US000662.  
 XX PR 30-JAN-2001; 2001WO-US000663.  
 XX PR 30-JAN-2001; 2001WO-US000664.  
 XX PR 30-JAN-2001; 2001WO-US000665.  
 XX PR 30-JAN-2001; 2001WO-US000666.  
 XX PR 30-JAN-2001; 2001WO-US000667.  
 XX PR 30-JAN-2001; 2001WO-US000668.  
 XX PR 30-JAN-2001; 2001WO-US000669.  
 XX PR 30-JAN-2001; 2001WO-US000670.  
 XX PR 05-FEB-2001; 2001US-0266860P.  
 XX PA (AEOM-) AEOMICA INC.  
 XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX DR WPI; 2002-179446/23.  
 XX PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX PS Disclosure; SEQ ID NO 6215; 214pp; English.  
 XX CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a

CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX QY 291 CTGGTGAGGACCTG 305  
 XX DB 15 CTGGTGAGGACCTG 1  
 XX RESULT 1040  
 XX ABN06471  
 XX ID ABN06471 standard; DNA; 17 BP.  
 XX AC ABN06471;  
 XX DT 29-MAY-2002 (first entry)  
 XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6463.  
 XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX OS Homo sapiens.  
 XX PN WO200192524-A2.  
 XX PD 06-DEC-2001.  
 XX PF 25-MAY-2001; 2001WO-US016981.  
 XX PR 26-MAY-2000; 2000US-0207456P.  
 XX PR 21-SEP-2000; 2000US-0234687P.  
 XX PR 27-SEP-2000; 2000US-0236359P.  
 XX PR 04-OCT-2000; 2000GB-00024263.  
 XX PR 30-JAN-2001; 2001WO-US000661.  
 XX PR 30-JAN-2001; 2001WO-US000662.  
 XX PR 30-JAN-2001; 2001WO-US000663.  
 XX PR 30-JAN-2001; 2001WO-US000664.  
 XX PR 30-JAN-2001; 2001WO-US000665.  
 XX PR 30-JAN-2001; 2001WO-US000666.  
 XX PR 30-JAN-2001; 2001WO-US000667.  
 XX PR 30-JAN-2001; 2001WO-US000668.  
 XX PR 30-JAN-2001; 2001WO-US000669.  
 XX PR 30-JAN-2001; 2001WO-US000670.  
 XX PR 05-FEB-2001; 2001US-0266860P.  
 XX PA (AEOM-) AEOMICA INC.  
 XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX DR WPI; 2002-179446/23.  
 XX PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX PS Disclosure; SEQ ID NO 6463; 214pp; English.  
 XX CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify

CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 3 A; 6 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02; 0; Mismatches 2; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 191 TATCCACTGCTCGT 205

DB 1 TATCCACTGCTCGT 15

RESULT 1041

ABN01016  
 ID ABN01016 standard; DNA; 17 BP.

XX AC ABN01016;

XX DT 29-MAY-2002 (first entry)

XX DE Human GDMLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1008.  
 XX KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;  
 XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 XX KW skeletal muscle disorder; amplicon; screening; ss.

XX OS Homo sapiens.  
 XX PN WO200192524-A2.  
 XX PD 06-DEC-2001.

XX PF 25-MAY-2001; 2001WO-US016981.  
 XX PR 26-MAY-2000; 2000US-0207456P.  
 XX PR 21-SEP-2000; 2000US-0234687P.  
 XX PR 27-SEP-2000; 2000US-0236359P.  
 XX PR 04-OCT-2000; 2000GB-00024263.  
 XX PR 30-JAN-2001; 2001WO-US000661.  
 XX PR 30-JAN-2001; 2001WO-US000662.  
 XX PR 30-JAN-2001; 2001WO-US000663.  
 XX PR 30-JAN-2001; 2001WO-US000664.  
 XX PR 30-JAN-2001; 2001WO-US000665.  
 XX PR 05-FEB-2001; 2001US-0266860P.

XX PA (ABOM-) AEOMICA INC.

XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon MB;  
 XX WIPI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption/ionization, comprises human myosin-like protein hGDMLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 1008; 21app; English.

XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence

SQ Sequence 17 BP; 8 A; 3 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 2.8%; Score 11.8; DB 1; Length 17;

Best Local Similarity 86.7%; Pred. No. 5e+02; 2; Indels 0; Gaps 0;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 202 CGGTCAAGCAGAGA 216

DB 3 CAGGGAAGCAGAGA 17

RESULT 1042

ABN06470  
 ID ABN06470 standard; DNA; 17 BP.

XX AC ABN06470;

XX DT 29-MAY-2002 (first entry)

XX DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6462.  
 XX KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;  
 XX KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 XX KW skeletal muscle disorder; amplicon; screening; ss.

XX OS Homo sapiens.

XX PN WO200192524-A2.

XX PD 06-DEC-2001.

XX PF 25-MAY-2001; 2001WO-US016981.

XX PR 26-MAY-2000; 2000US-0207456P.

XX PR 21-SEP-2000; 2000US-0234687P.

XX PR 27-SEP-2000; 2000US-0236359P.

XX PR 04-OCT-2000; 2000GB-00024263.

XX PR 30-JAN-2001; 2001WO-US000661.

XX PR 30-JAN-2001; 2001WO-US000662.

XX PR 30-JAN-2001; 2001WO-US000663.

XX PR 30-JAN-2001; 2001WO-US000664.

XX PR 30-JAN-2001; 2001WO-US000665.

XX PR 30-JAN-2001; 2001WO-US000666.

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PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 6462; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 3 A; 5 C; 3 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 191 TATCCACTGCTCGGT 205
XX Db 2 TATCCACTGCTCGGT 16
XX
XX RESULT 1043
XX ABN08153
XX ID ABN08153 standard; DNA; 17 BP.
XX
XX AC ABN08153;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8145.
XX
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
XX muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
XX skeletal muscle disorder; amplicon; screening; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200192524-A2.
XX
XX PD 06-DEC-2001.
XX
XX PF 25-MAY-2001; 2001WO-US016981.

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XX 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX 30-JAN-2001; 2001WO-US000661.
XX 30-JAN-2001; 2001WO-US000662.
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 30-JAN-2001; 2001WO-US000670.
XX 05-FEB-2001; 2001US-0266860P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
XX or as specific biomolecule capture probes for surface-enhanced laser
XX desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 8145; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
XX protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
XX 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
XX nucleic acids can be used as probes to detect, characterise and quantify
XX hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
XX provide initial substrates for the recombinant engineering of hGDMPLP-1
XX protein variants having desired phenotypic improvements, and for
XX expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
XX used as immunogens to raise antibodies that specifically recognise hGDMPLP
XX -1 proteins, as standards in assays used to determine the concentration
XX and/or amount specifically of hGDMPLP proteins, as specific biomolecule
XX capture probes for surface-enhanced laser desorption ionisation, as
XX therapeutic supplement in patients having specific deficiency in hGDMPLP-1
XX production, and in vaccines or for replacement therapy. The
XX polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
XX disorder associated with the expression of hGDMPLP-1, in particular heart
XX and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
XX The present sequence represents an oligomer used in the screening of the
XX hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 5 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 2.8%; Score 11.8; DB 1; Length 17;
XX Best Local Similarity 86.7%; Pred. No. 5e+02;
XX Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 265 TGCACCTGGAGCAGG 279
XX Db 1 TGCACCTGGAGCAGG 15
XX
XX RESULT 1044
XX ABN10474
XX ID ABN10474 standard; DNA; 17 BP.
XX
XX AC ABN10474;
XX
XX DT 29-MAY-2002 (first entry)
XX
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10466.
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XX

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